WebObjects Solutions

Session 713

WebObjects Solutions

Toni Trujillo Vian
Director, WebObjects Engineering

Introduction

- Examples and case studies of how WebObjects has been used to bring information to the web, streamline business operations, and solve real world problems

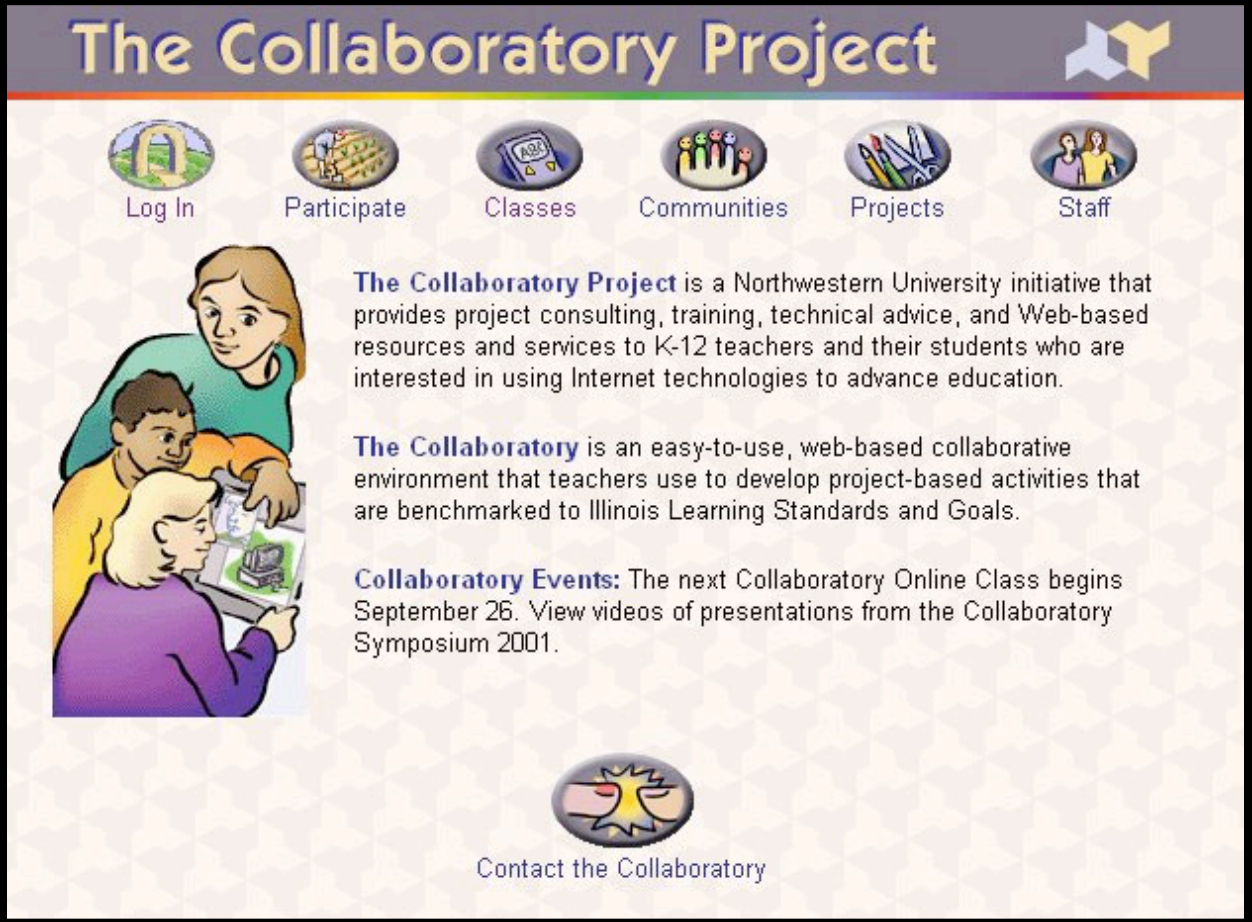
What You Will Learn

- Innovative ways that WebObjects is being utilized
- WebObjects solves myriad business needs
- WebObjects projects have high success rates

The Collaboratory Project

Bob Davis
Collaboratory Project Manager
NorthWestern University

collaboratory.nunet.net



Collaboratory Project

- Northwestern University Information Technology initiative
- Developed to help educators integrate Internet technologies in to their curricula
- 5-Year, $2.2+ Million Investment
- Current funding from the Illinois State Board of Education (ISBE) and SBC Ameritech

Collaboratory Project

- Scaffolding curricular innovation
- Mature, well-developed resources and services
- Empowering teachers and their students
- Encouraging sharing and collaboration
- Archive of replicable model projects

Statistics and Information

- Participating Schools—**662**
- Illinois School Districts—**122**
- Illinois Teachers—**2,000+**
- Projects and Resources—**4,000+**
- Logins in the past year—**50,000+**

Welcome to the Collaboratory

You must have an account to use the Collaboratory.

User Name:

Password:

Login

If you don't have a Collaboratory account, click the How to Participate button to learn how to participate and set up a new account:

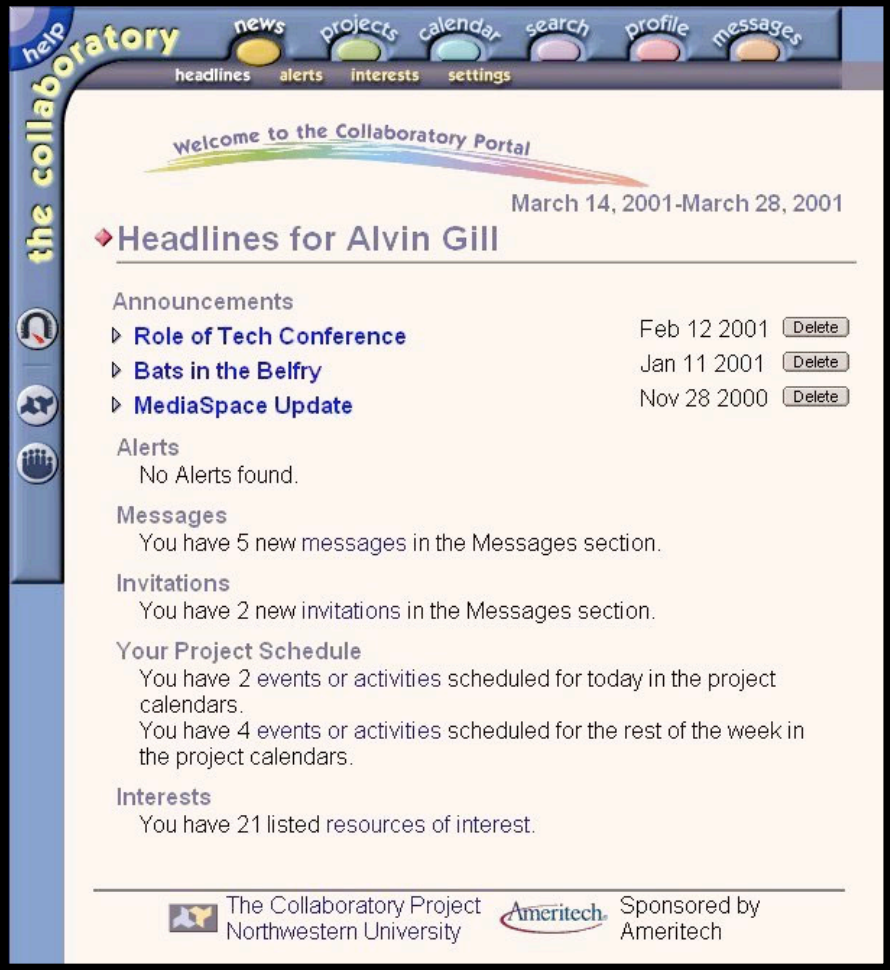
How to Participate

The Collaboratory Project

The Collaboratory

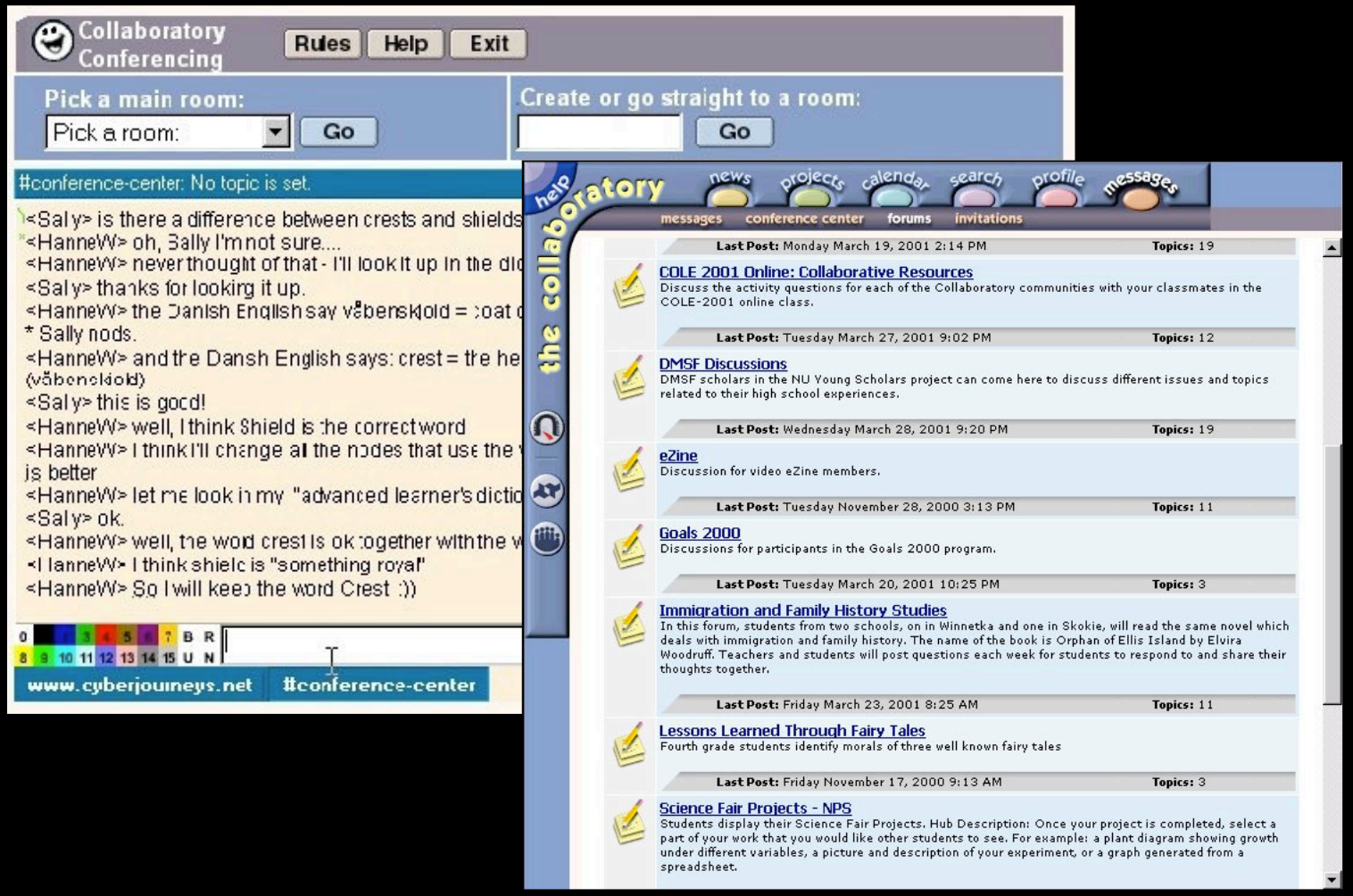
- Alerts and Interests
- Communication Services
- Projects and Activities
- Resources
- eCourses
- Volunteers

Headlines and Alerts



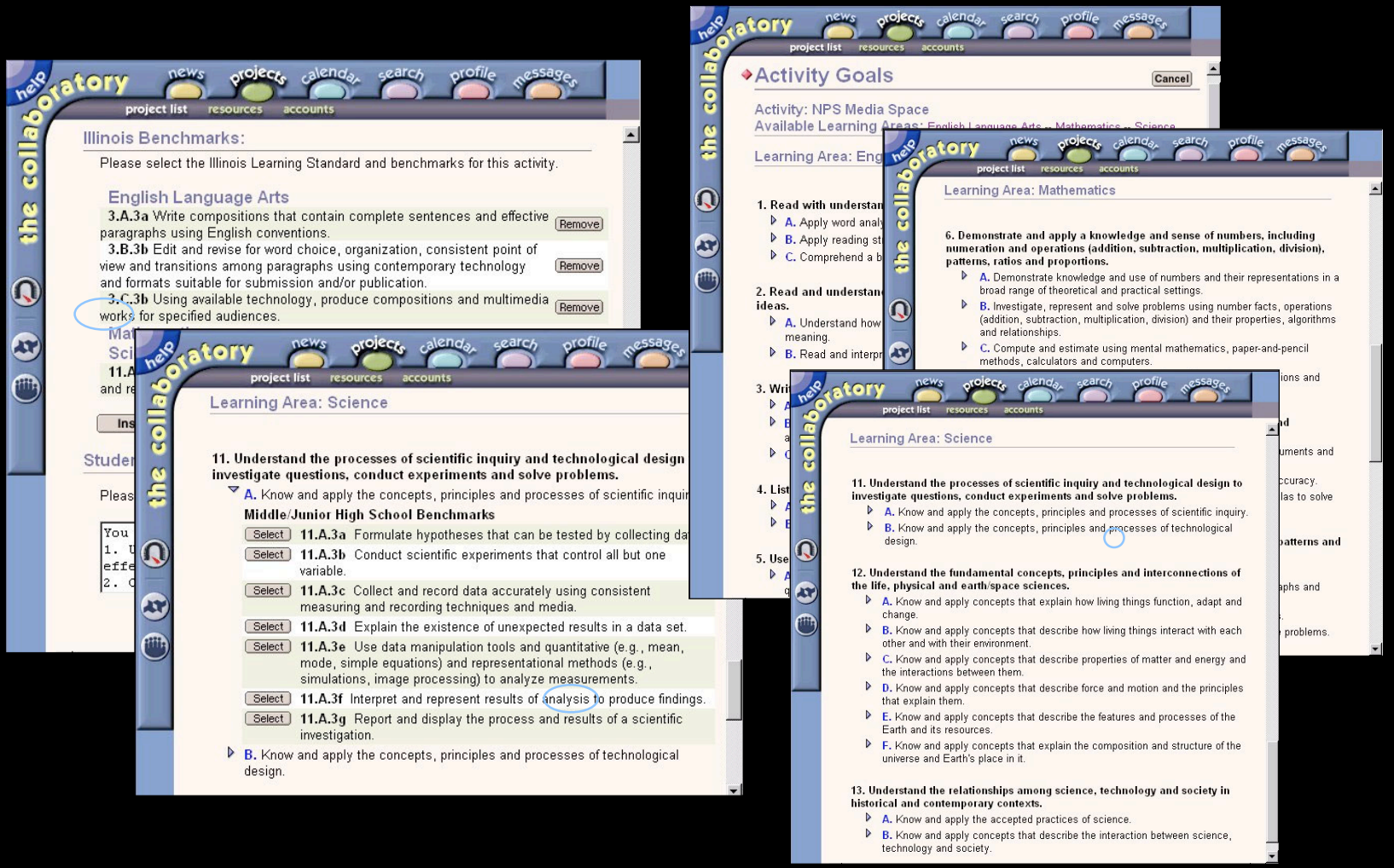
Communication Core Services

Forums and Conferencing



Project and Activities

Illinois Learning Standards

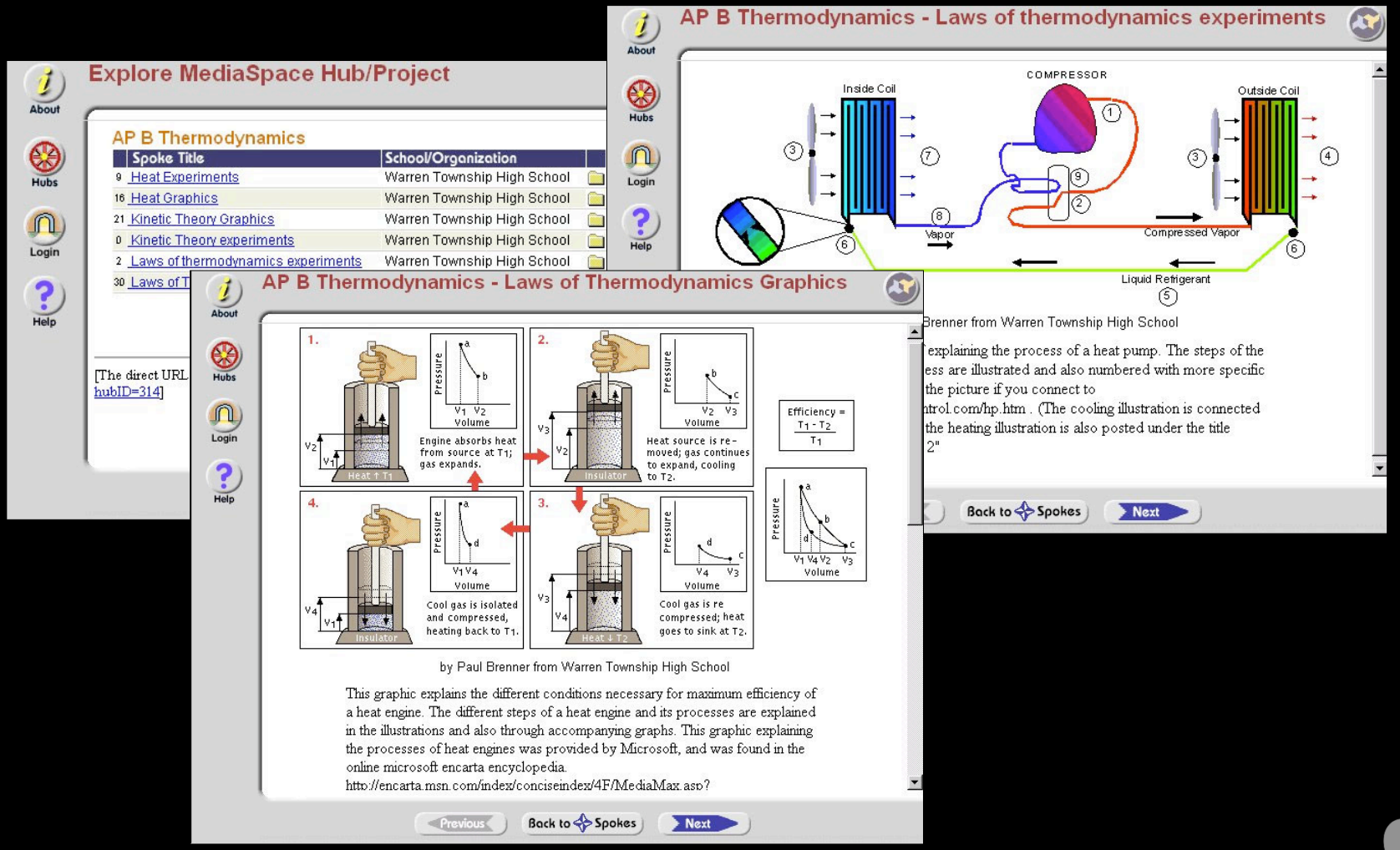


Collaboratory Resources

- The Cybrary
- MediaSpace
- The Internet Book Club
- The Survey Studio

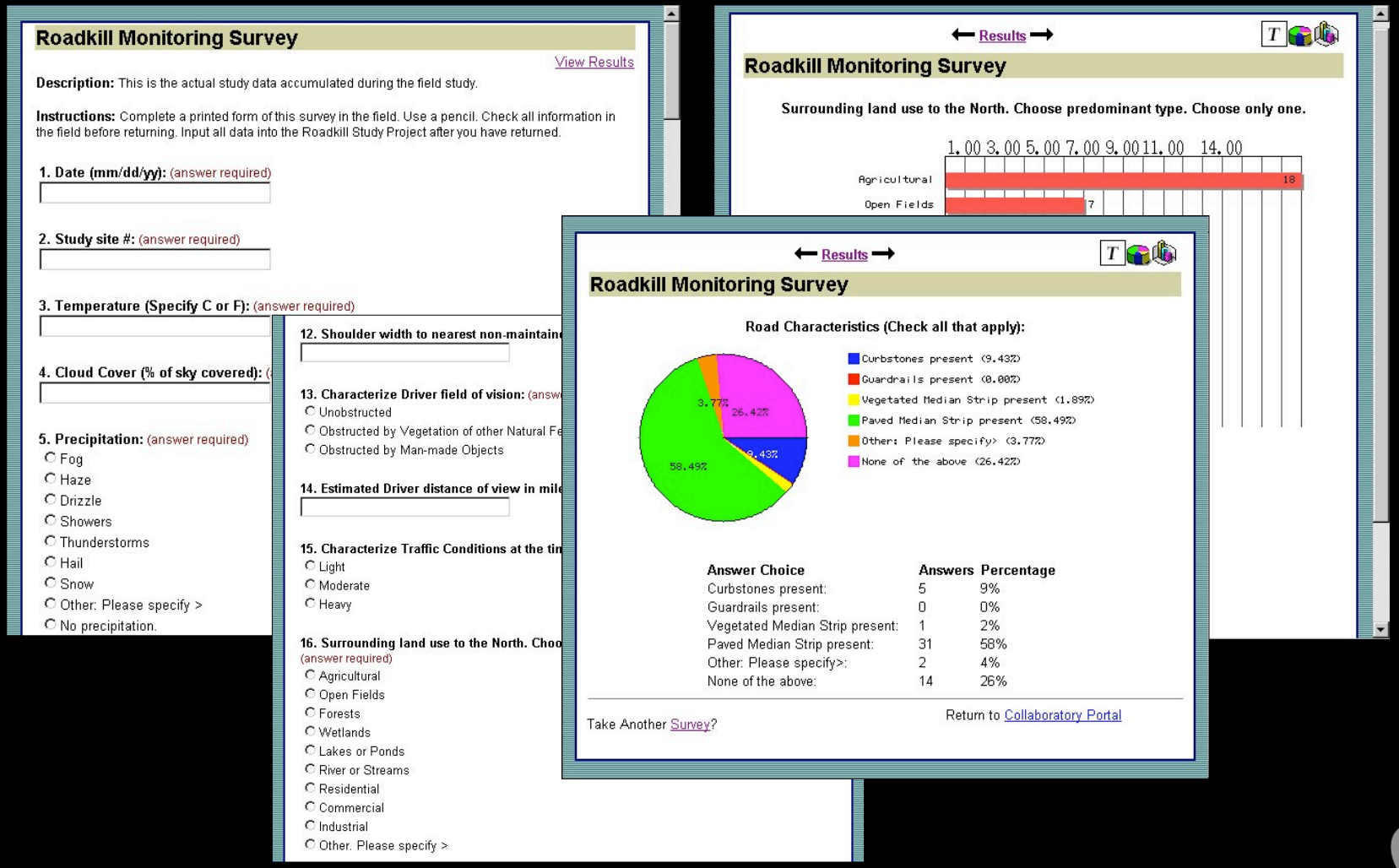
Robots and Robotics

Physics AP—Thermodynamics

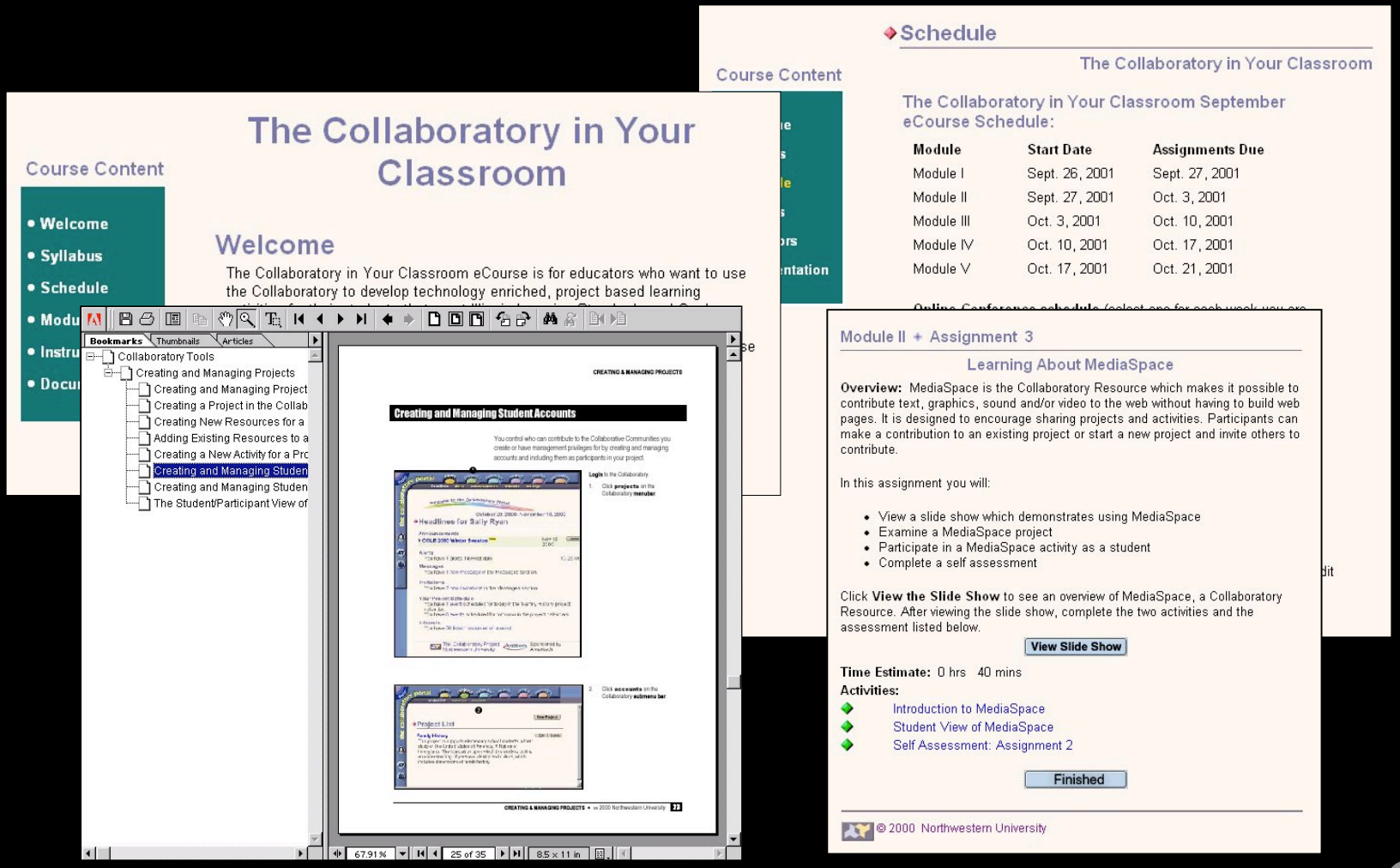


3rd Grade October Reads

Roadkill Monitoring



Online eCourses



Volunteers

Volunteer Events
Volunteer Administration
Home
Gary Greenberg's Volunteer Profile
Volunteer
Conference
Learn More
rces/Activities
4:30 pm CST
rces/Activities
- 9:00 pm CST
ratory Chat
9:30 am CST
ratory Chat
4:00 pm
a Sponsored Project
- 9:00 pm
ment /Topic of the Month (Expert)
4:30 pm
n More
the Collaboratory
the Classroom
sroom
d Project
n More
Volunteer at the Collaboratory!
Volunteer Administration
Volunteers
Collaboratory Volunteers have a unique opportunity to provide guidance and online support for Collaboratory members by assisting them with designing projects, activities and resources.
Opportunities include moderating conf
the "Ask an Expert" service and guiding pa
The Volunteers
Conference Schedule
Weekly Conference Schedule - Central Standard Time
Monday - 3:30 - 4:30 pm
Creating Resources/Activities
Tuesday - 3:30 - 4:30 pm
Project Development or Topic of the Month
Wednesday - 7:30 - 8:30 pm
Creating Resources/Activities
Thursday - 7:00 - 8:00 pm
Project Development
Thursday - 8:00 - 9:00 pm
Participating in a Sponsored Project
Saturday - 8:30 - 9:30 am
General Collaboratory Chat
Sunday - 3:00 - 4:00 pm
General Collaboratory Chat

Environment

- WebObjects 5.0
- Deployment: Sun Server E250—Apache
- Development: Windows 2000
- Database: Microsoft SQL Server
- Database Server: Dell—JDBC: JTurbo
- Web Server: Dell—Microsoft IIS
- Version Control: CVS

Collaboratory Staff

The Collaboratory Project

Members of the **Collaboratory Project Staff** develop and support the Collaboratory online resources and services, provides project consulting and support for teachers developing projects in the Collaboratory, and works with schools, school districts, and eduction organizations to develop initiatives that take advantage of the Collaboratory.

Gary Greenberg, Director
Needs assessment, project planning
847/491-2995 Gary-Greenberg@northwestern.edu

Bob Davis, Project Manager
Needs assessment, consulting, project planning
847/467-5805 b-davis@northwestern.edu

Rich Barone, Application/Multimedia Development
Resource development, project and technical consulting
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Paul Hertz, Application/Multimedia Development
Resource development, project and technical consulting
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Tamara McCulloch, Project Consulting, Training and Support
Presentations, project consulting, training, and support
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Jonathan Rochkind, Application Development
Resource development, technical consulting
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Bonnie Thurber, Project Consulting, Training and Support
Presentations, project consulting, training, and support
847/467-6734 b-thurber@northwestern.edu

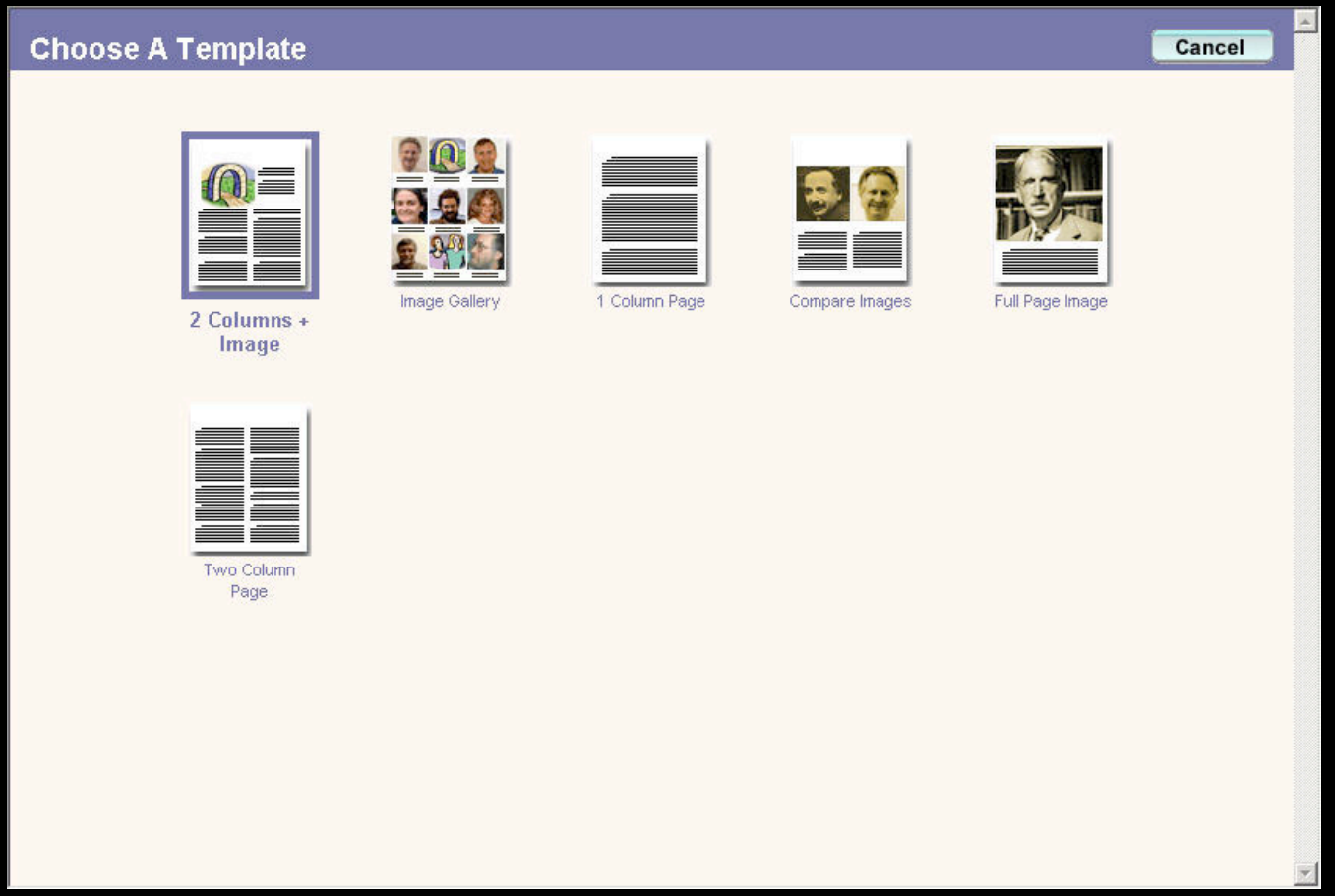
Unique Problems Solved

- Development of a reusable set of Learning, Media and Display Objects which form the core of our next generation of applications

Reusable Objects

- Learning Objects
  - Reflection, Assessment, Annotation, Peer Critiquing, Focused Feedback, Editing, Notification
- Media Objects
  - PDF, Video, MS Word, Graphics, Midi, MP3, Thumbnail . . .
- Display Objects
  - Interface Design, Layout, Navigation, Sequencing

Display Object



Media Object

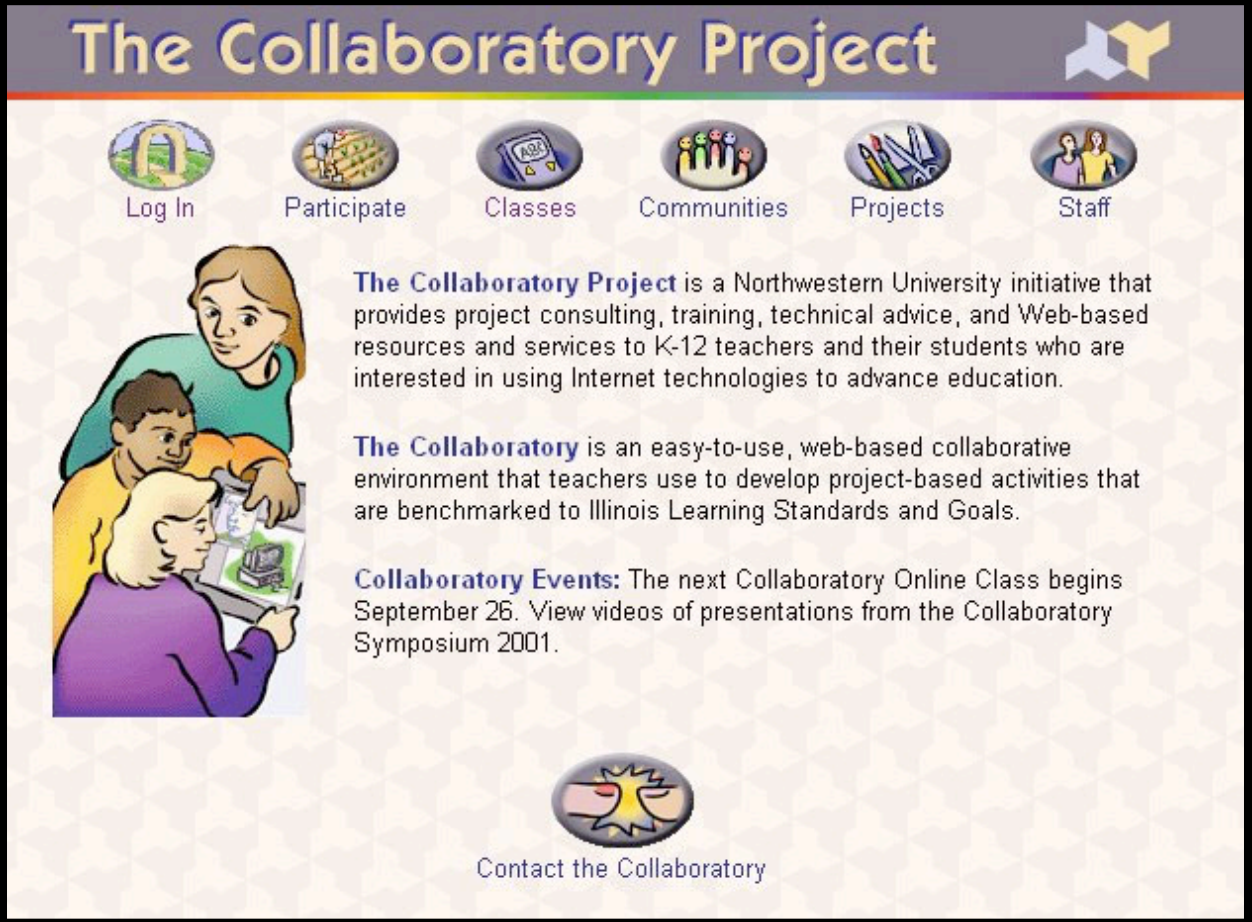
Reusability

- Access Control
  - Accounts/groups authentication and permissions
- Core Objects
  - Learning, Media and Display Objects
- Javascript and Stylesheet Components
- Interface Widgets

Scalability

- Expecting to grow to over 100,000 accounts in 2003
- Plan to add additional WebObject servers and load balancing as needed
- Upgrade to MS SQL Server 2000
- Upgrade Quicktime Server

collaboratory.nunet.net



PowerSchool

Matthew Firlik
Senior Software Engineer
PowerSchool

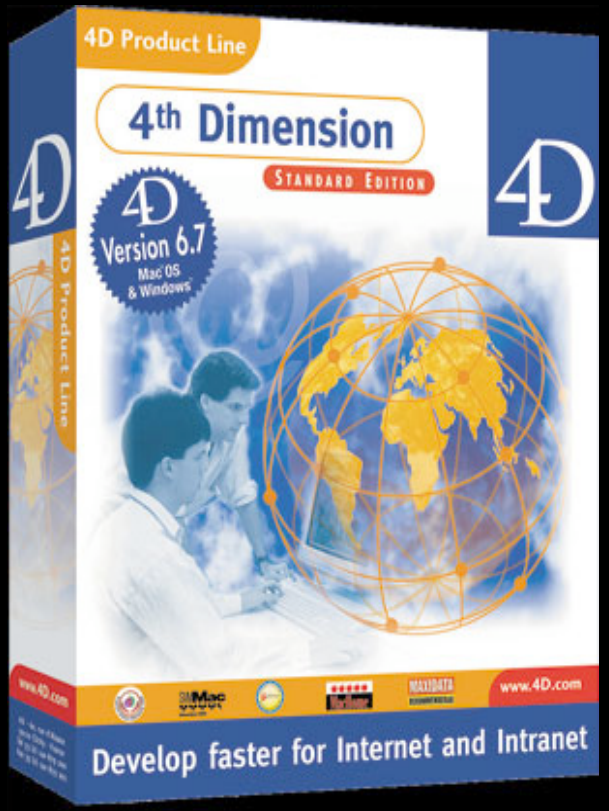
Introduction

Who and what is PowerSchool

- Division of Apple
- Student Information System
- Targeted at K–12 districts

Technology Decision

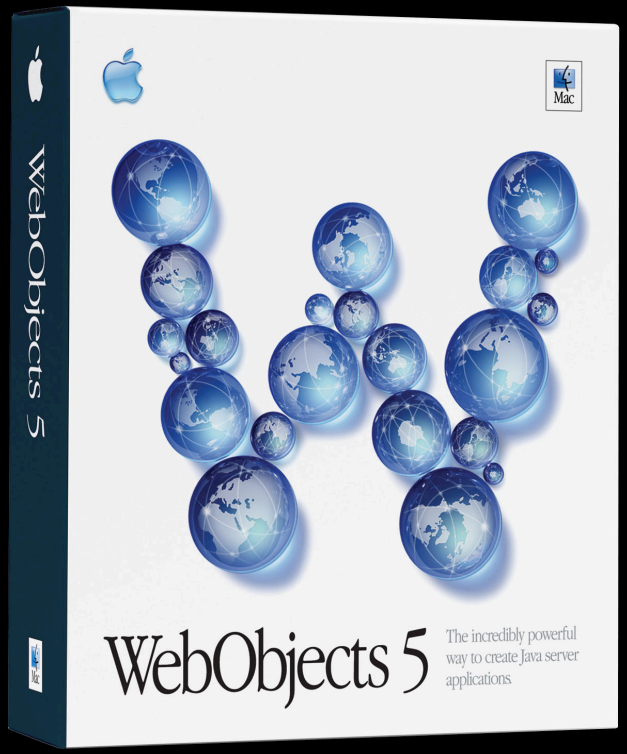
In the beginning …



- PowerSchool
  - Developed in 4D
  - Up to 7500 students
    - 80% of districts (US)
    - 20% of students in (US)

Technology Decision

Where we are now…

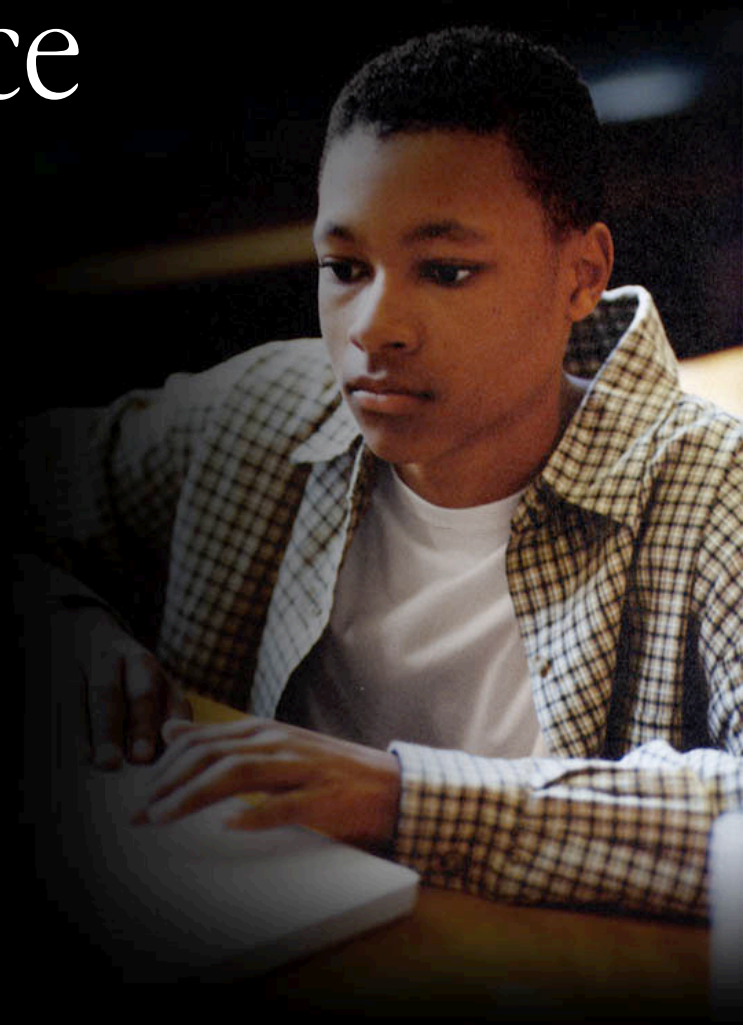


- PowerSchool Enterprise
  - Developed in WebObjects
  - 7500+ students
    - 20% of districts (US)
    - 80% of students in (US)

Application Audience

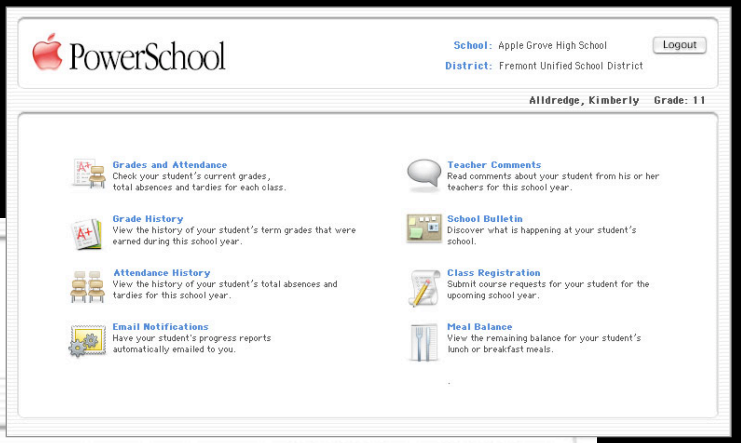
The PowerSchool Users

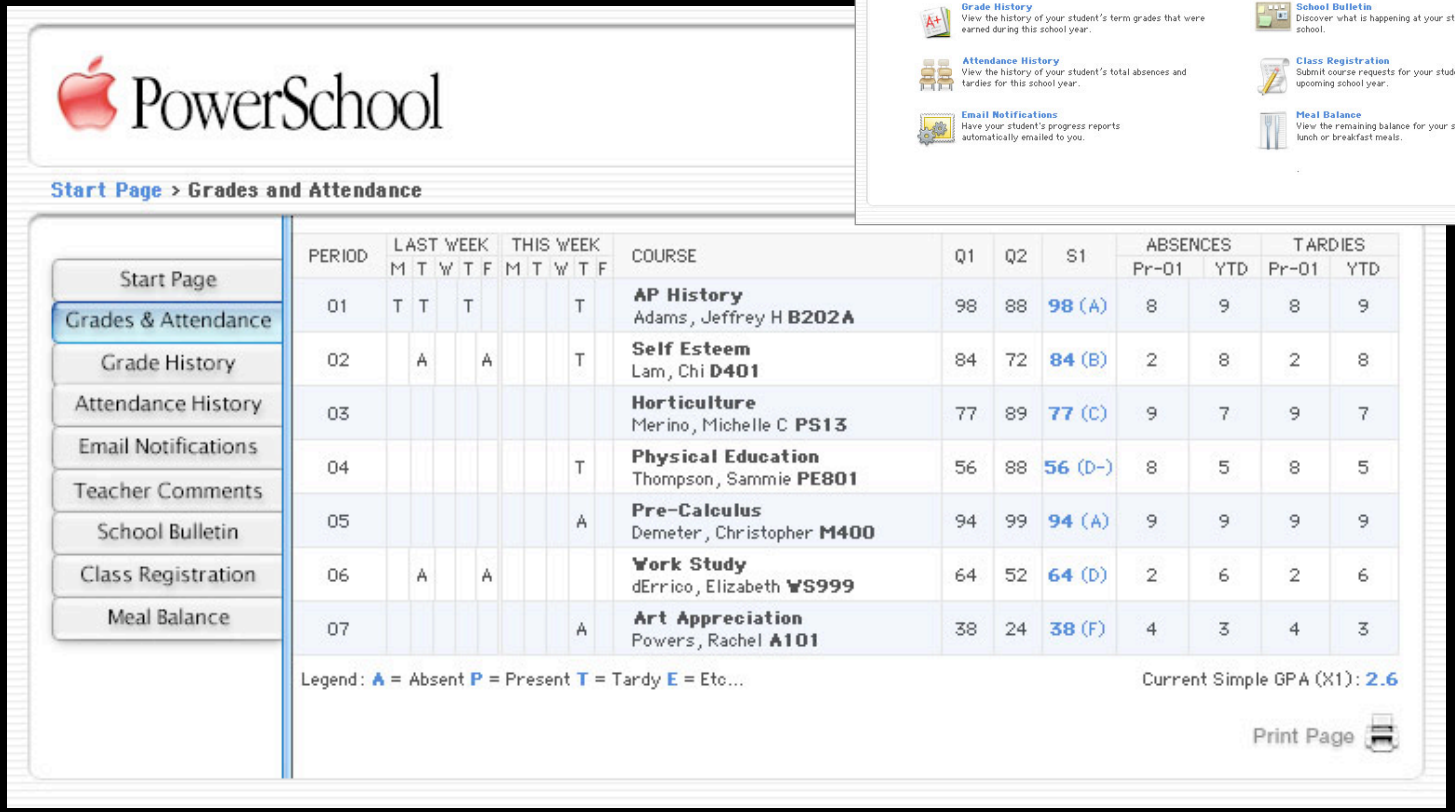
- Students
- Parents
- Teachers
- Administrators



Parents and Students

Fostering communication





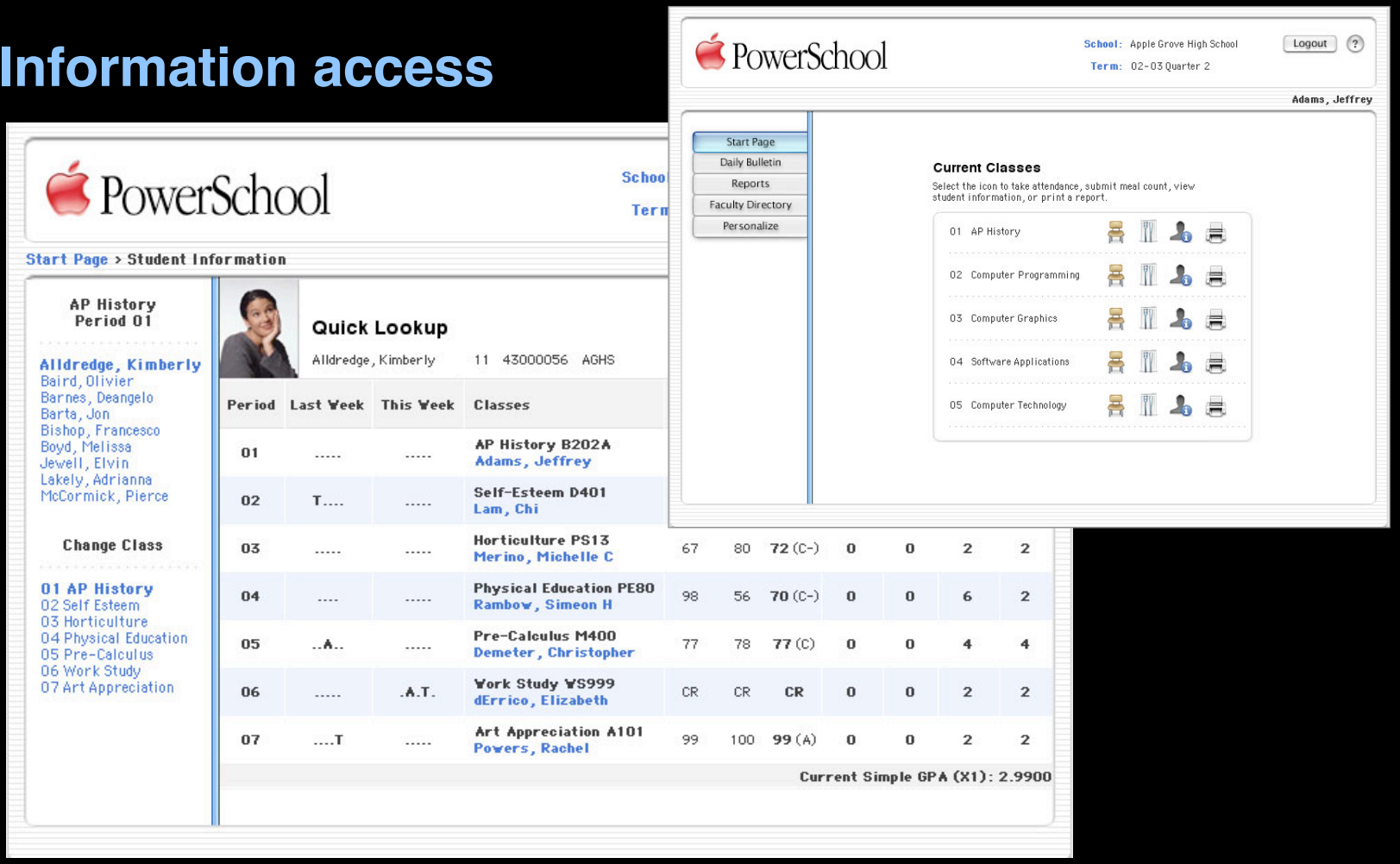
Parents and Students

Fostering communication

- Real-time status and information
  - Grading, student progress
  - School calendar
  - Future assignments
- Development of communication
  - Student, teacher, parent

Teachers

Information access



Teachers

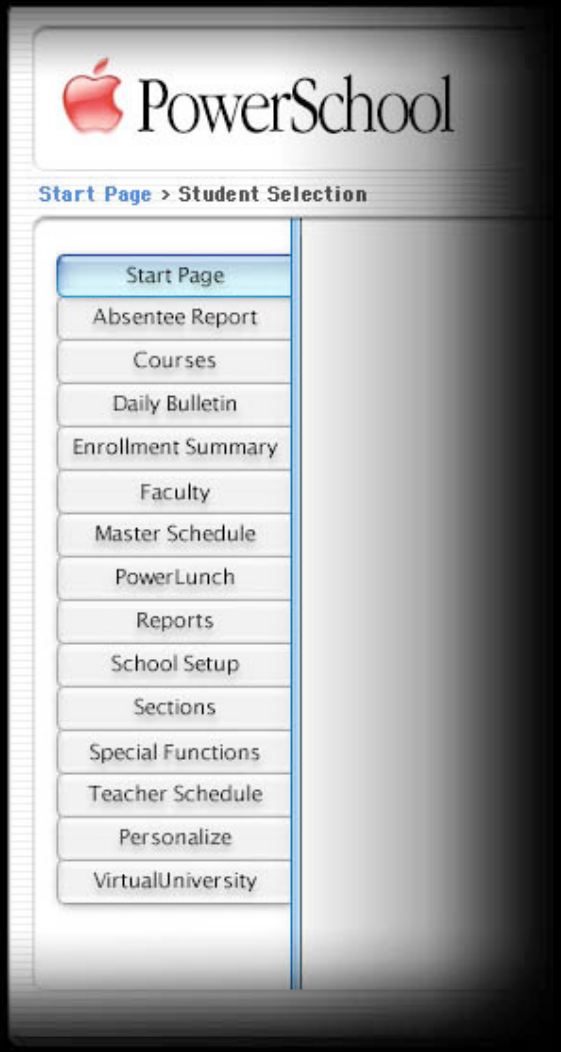
Information access

- Two-way communication with SIS
- Ease of time and information management
- Access from any workstation, location

Administrators

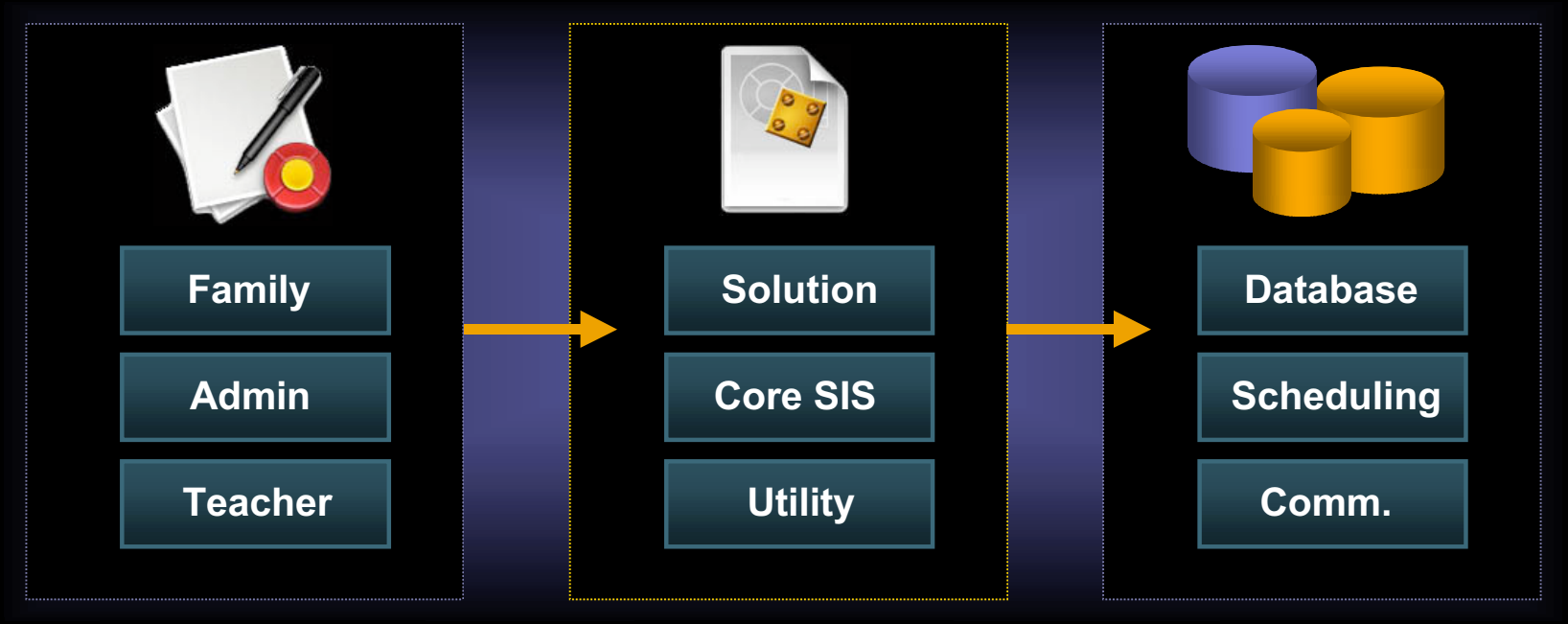
Centralized administration

- Secure, real-time data access
- Manage large, complex data sets
- Aggregated and state-mandated reporting mechanisms



Architecture

How is PowerSchool designed?



Challenges

Technology, infrastructure, and presentation

- Complex data manipulation and presentation
- Data validation
- Ad-hoc and state-mandated reporting
- External system interfacing
- Multi-platform support
- “Shrink Wrap” with customization

Technology

Development of PowerSchool

- Deployments
  - IIS/Windows/SQL Server
  - Apache/Solaris/Oracle

Technology

Development of PowerSchool

- Deployment examples
  - District with 20,000 students
  - Statewide deployment
  - Top-10 school district with over 200,000 students

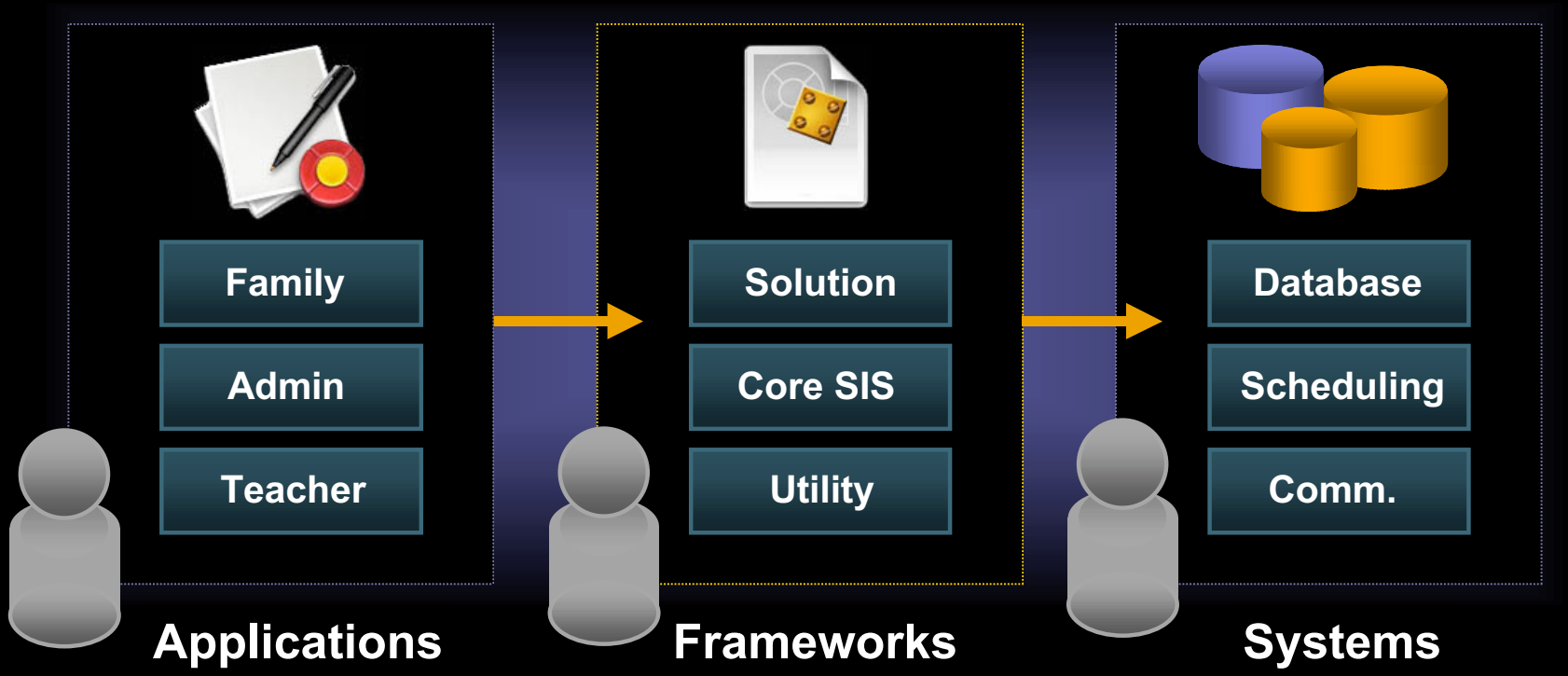
Technology

Development of PowerSchool

- WO 4.0 to 4.5.1 to 5.1
- Developed in Java (from the start)
- Development
  - Project Builder on Mac OS X
  - Revision control through Perforce
  - Staged Oracle databases

Development Teams

How is PowerSchool engineered?



Development Teams

How is PowerSchool engineered?

Marketing

Analysis

Quality Assurance

Tech Pubs

Implementation

Training

Future

Next up for PowerSchool…

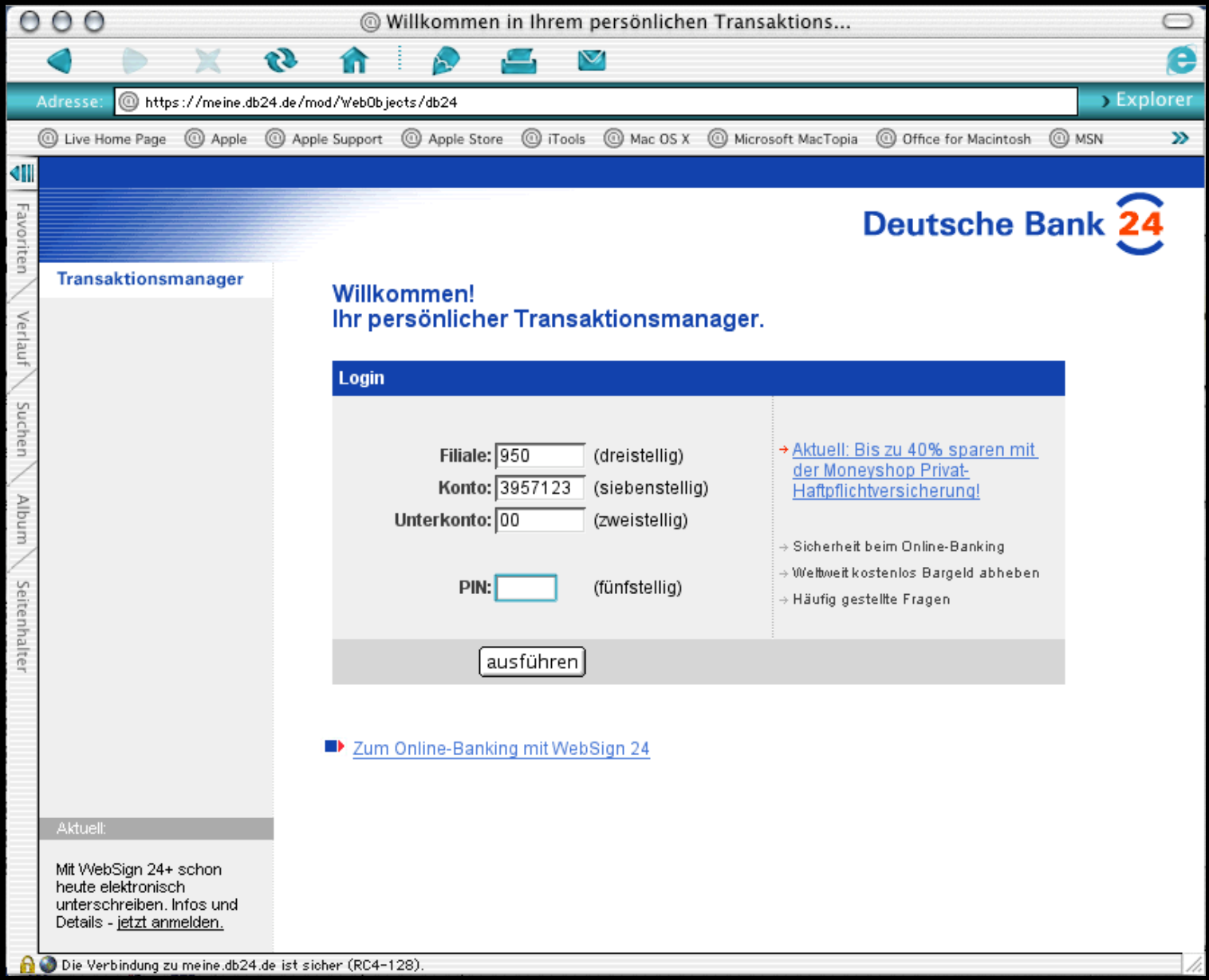
- Interface usability
- Deployments on Mac OS X
- Features, features, features . . .

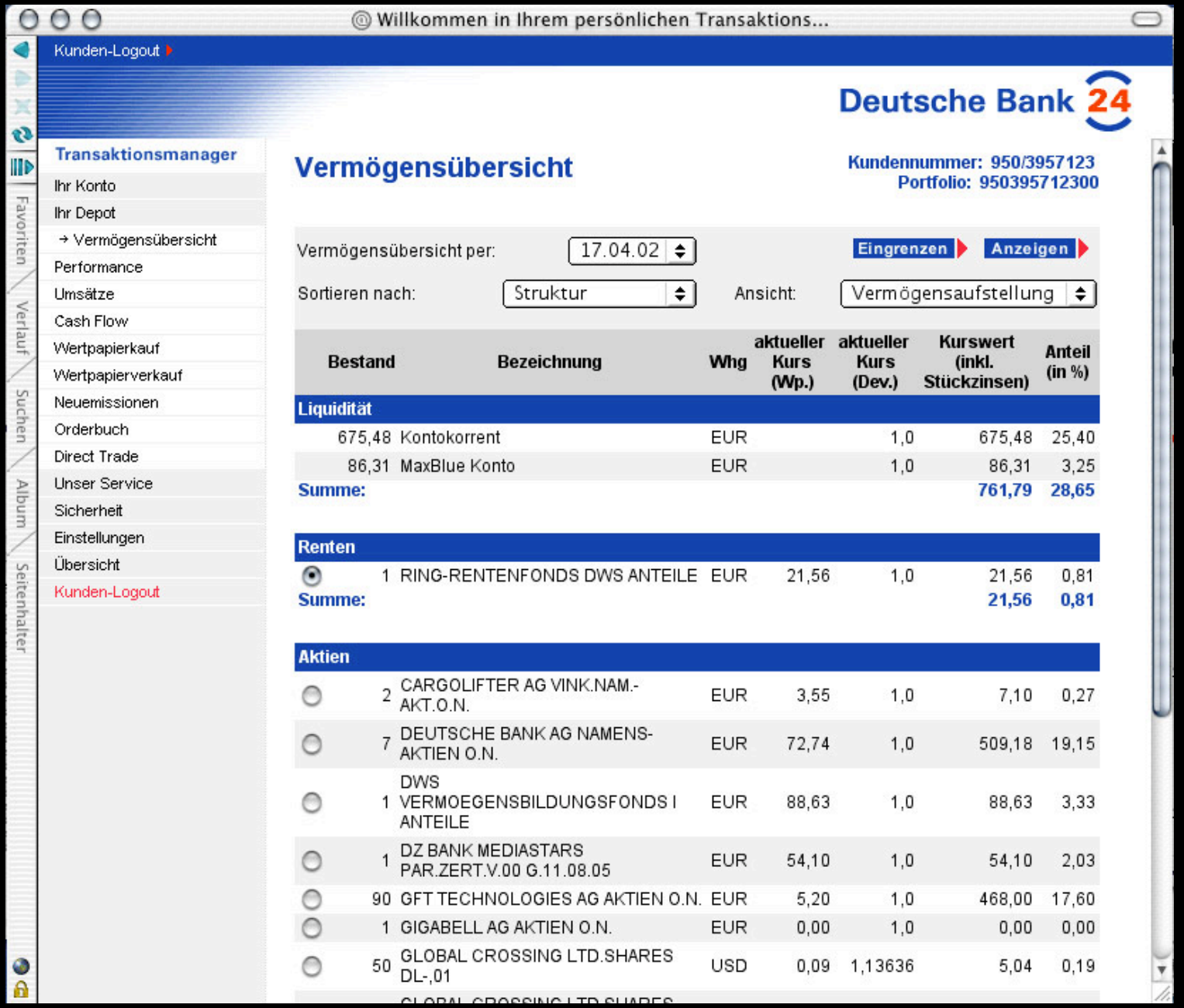
Deutsche Bank 24

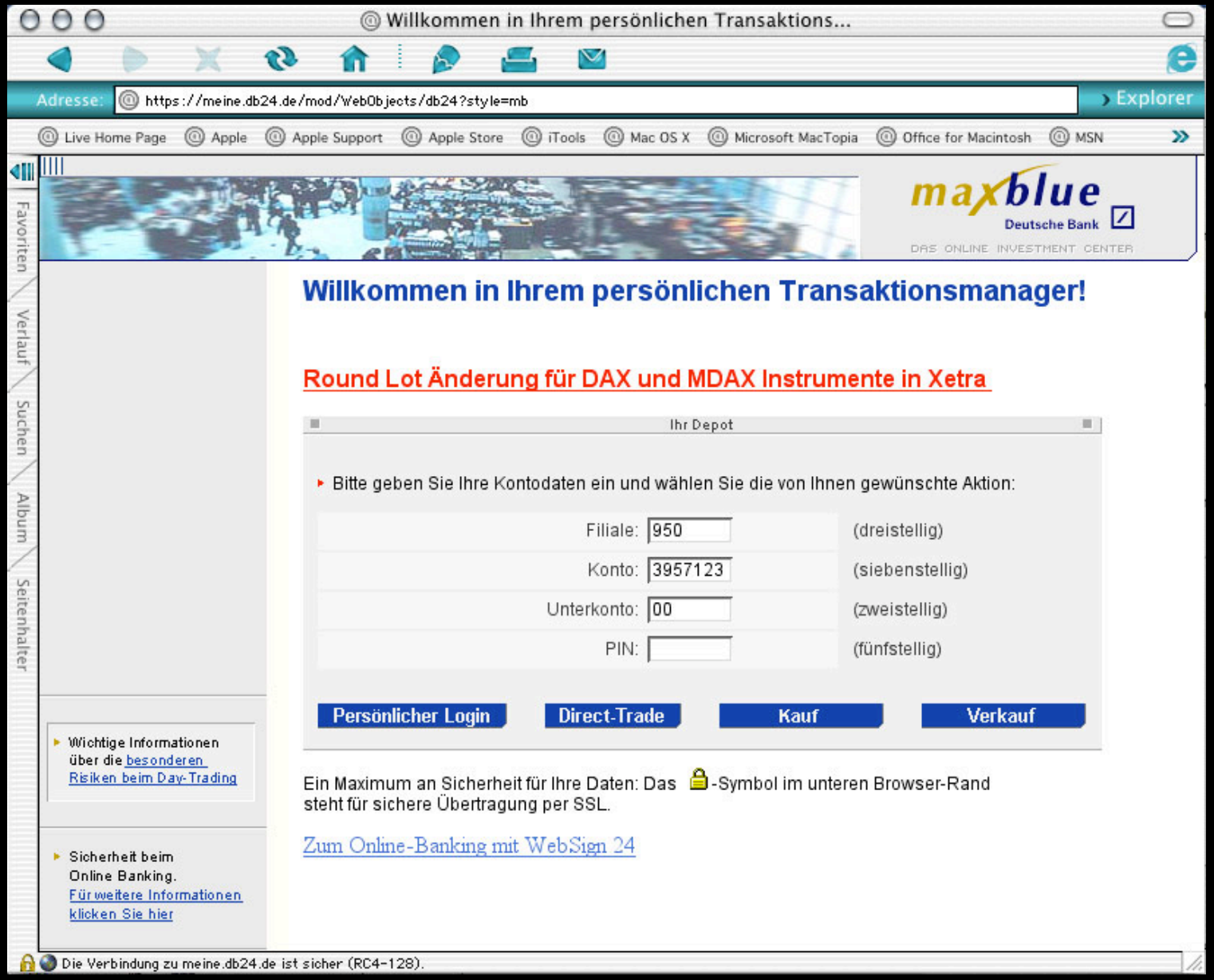
Thomas Lehmann
Consultant, Web Application Development
GFT Financial Solutions

Introduction

- Deutsche Bank 24 is a subsidiary of Deutsche Bank for retail banking
- 2 million customers using the web application
- WebObjects is used to build the banking and brokerage application
- Since 1996 applet solution
- Since 1998 WebObjects solution


Willkommen in Ihrem persönlichen Transaktions...
Adresse:
https://meine.db24.de/mod/WebObjects/db24
Explorer
Live Home Page
Apple
Apple Support
Apple Store
iTools
Mac OS X
Microsoft MacTopia
Office for Macintosh
MSN
Favoriten
Verlauf
Suchen
Album
Seitenhalter
Deutsche Bank 24
Transaktionsmanager
Willkommen!
Ihr persönlicher Transaktionsmanager.
Login
Filiale: 950 (dreistellig)
Konto: 3957123 (siebenstellig)
Unterkonto: 00 (zweistellig)
PIN: (fünfstellig)
ausführen
Aktuell: Bis zu 40% sparen mit der Moneyshop Privat-Haftpflichtversicherung!
Sicherheit beim Online-Banking
Weltweit kostenlos Bargeld abheben
Häufig gestellte Fragen
Zum Online-Banking mit WebSign 24
Aktuell:
Mit WebSign 24+ schon heute elektronisch unterschreiben. Infos und Details - jetzt anmelden.
Die Verbindung zu meine.db24.de ist sicher (RC4-128).


Willkommen in Ihrem persönlichen Transaktions...
Kunden-Logout
Deutsche Bank 24
Transaktionsmanager
Ihr Konto
Ihr Depot
→ Vermögensübersicht
Performance
Umsätze
Cash Flow
Wertpapierkauf
Wertpapierverkauf
Neuemissionen
Orderbuch
Direct Trade
Unser Service
Sicherheit
Einstellungen
Übersicht
Kunden-Logout
Favoriten
Verlauf
Suchen
Album
Seitenhalter
Vermögensübersicht
Kundennummer: 950/3957123
Portfolio: 950395712300
Vermögensübersicht per: 17.04.02
Eingrenzen
Anzeigen
Sortieren nach: Struktur
Ansicht: Vermögensaufstellung
Bestand
Bezeichnung
Whg
aktueller Kurs (Wp.)
aktueller Kurs (Dev.)
Kurswert (inkl. Stückzinsen)
Anteil (in %)
Liquidität
675,48 Kontokorrent EUR 1,0 675,48 25,40
86,31 MaxBlue Konto EUR 1,0 86,31 3,25
Summe: 761,79 28,65
Renten
1 RING-RENTENFONDS DWS ANTEILE EUR 21,56 1,0 21,56 0,81
Summe: 21,56 0,81
Aktien
2 CARGOLIFTER AG VINK.NAM.-AKT.O.N. EUR 3,55 1,0 7,10 0,27
7 DEUTSCHE BANK AG NAMENS-AKTIEN O.N. EUR 72,74 1,0 509,18 19,15
1 DWS VERMOEGENSBILDUNGSFONDS I ANTEILE EUR 88,63 1,0 88,63 3,33
1 DZ BANK MEDIASTARS PAR.ZERT.V.00 G.11.08.05 EUR 54,10 1,0 54,10 2,03
90 GFT TECHNOLOGIES AG AKTIEN O.N. EUR 5,20 1,0 468,00 17,60
1 GIGABELL AG AKTIEN O.N. EUR 0,00 1,0 0,00 0,00
50 GLOBAL CROSSING LTD.SHARES DL-,01 USD 0,09 1,13636 5,04 0,19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Explorer
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Microsoft MacTopia
Office for Macintosh
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Favoriten
Verlauf
Suchen
Album
Seitenhalter
maxblue
Deutsche Bank
DAS ONLINE INVESTMENT CENTER
Willkommen in Ihrem persönlichen Transaktionsmanager!
Round Lot Änderung für DAX und MDAX Instrumente in Xetra
Ihr Depot
Bitte geben Sie Ihre Kontodaten ein und wählen Sie die von Ihnen gewünschte Aktion:
Filiale: 950 (dreistellig)
Konto: 3957123 (siebenstellig)
Unterkonto: 00 (zweistellig)
PIN: (fünfstellig)
Persönlicher Login
Direct-Trade
Kauf
Verkauf
Wichtige Informationen über die besonderen Risiken beim Day-Trading
Sicherheit beim Online Banking. Für weitere Informationen klicken Sie hier
Ein Maximum an Sicherheit für Ihre Daten: Das -Symbol im unteren Browser-Rand steht für sichere Übertragung per SSL.
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IHR TRANSAKTIONSMANAGER
BEENDEN
maxblue
Deutsche Bank
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Ihr Depot
Vermögensübersicht
Performance
Umsätze
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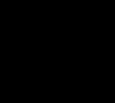
1 GIGABELL AG AKTIEN O.N. EUR 0,00 1,0 0,00 0,00

Unique Problems Solved

- CORBA connection to Middleware
- Business Objects
- Navigation concept
- Multilanguage, multilayout application
- Integration of chip card legitimation using applet and live connect
- Heavy load



Tools and Environment

- WebObjects on Win2k
- CVS server on Linux
- Oracle/JDBC
- Homegrown Middleware for EAI
- SUN Solaris as test app server
- Apache webserver on Linux
- Up to 5 developers simultaneously

Reusability

- Input/Output Component Framework with XML configurable components
    - Selection lists
    - Formatted currency values
    - Generic input validation
- Navigation concept
- Different applications for different banks reusing core implementations

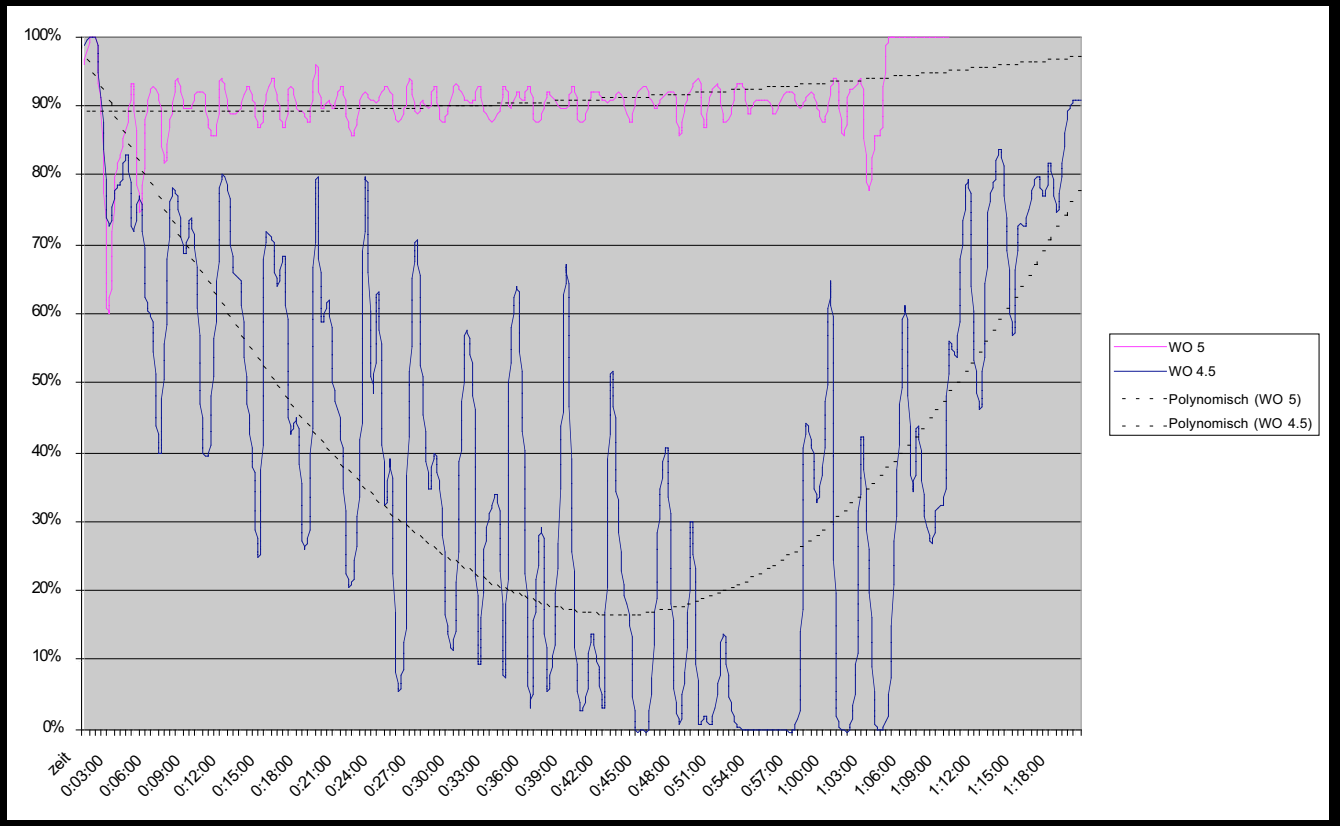
Scalability

- Two SUN E10k running the WebObjects instances
- 480 application instances
- 150,000 customers are logged in every day (maximum 400,000)
- Webservers handling 11.5 million HTTP requests (equals 25 GB net traffic)

Hardware Architecture

WO4.5 vs. WO5

CPU idle time during a typical test case



WO4.5 vs. WO5

- Significant more perfomance
- 70 to 200 percent faster
- Very small CPU workload
- Improved availability
- High scalability
- With same hardware we are able to serve 4 times more customers

WO4.5 vs. WO5

Converting issues

- Script-based converting solves 90 percent of all issues
- Problems with log4j caused by JDK version change
- No problems with live connect for Chip Card communication

Weblicon PIM

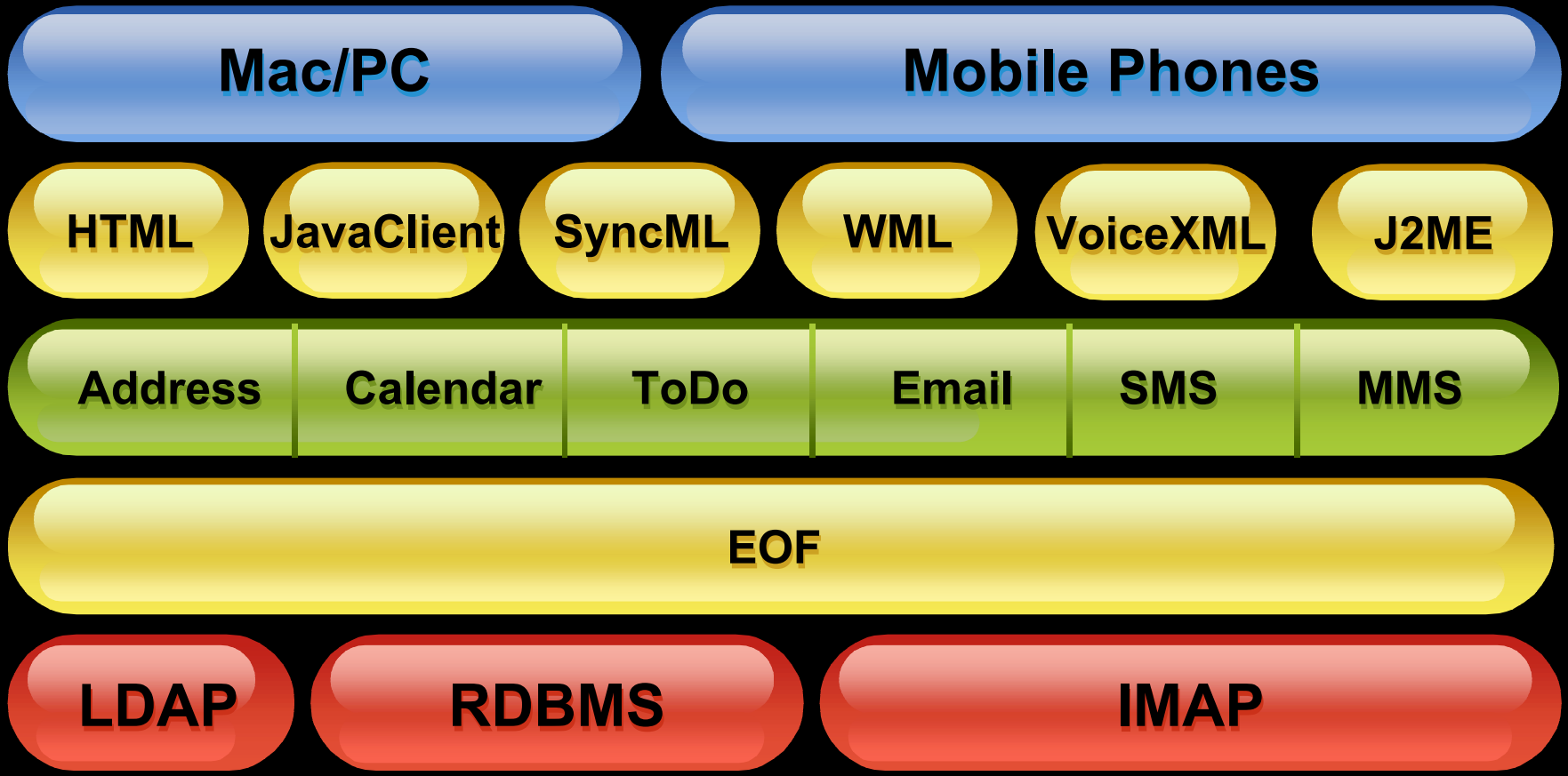
..

Michael Buning
CTO, Weblicon Technologies AG

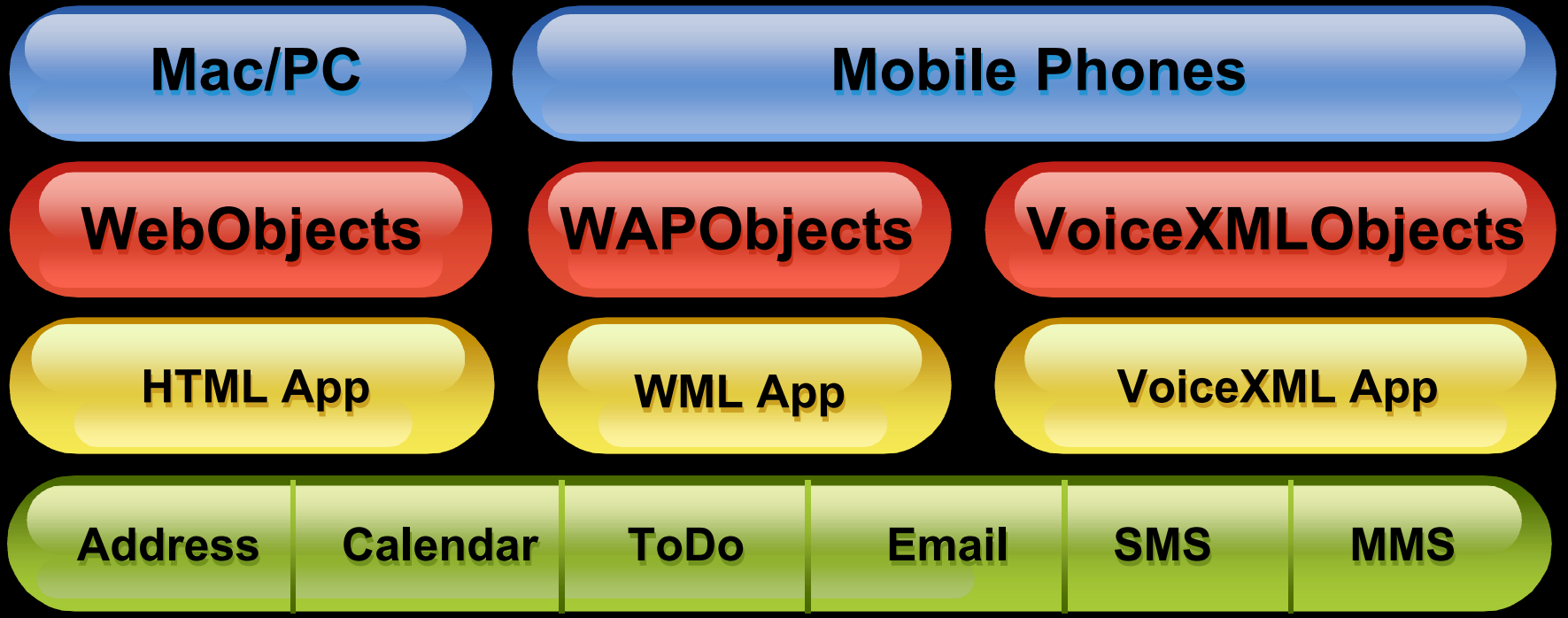
Weblicon PIM

- Personal Information Manager (PIM) for Telcos, Portals, Corporates
- Complete Organizer
  - Address Book, Calendar, ToDo
  - Email, SMS, MMS
- Based on WebObjects 5.1

Weblicon Architecture



WO Frameworks



Screenshots

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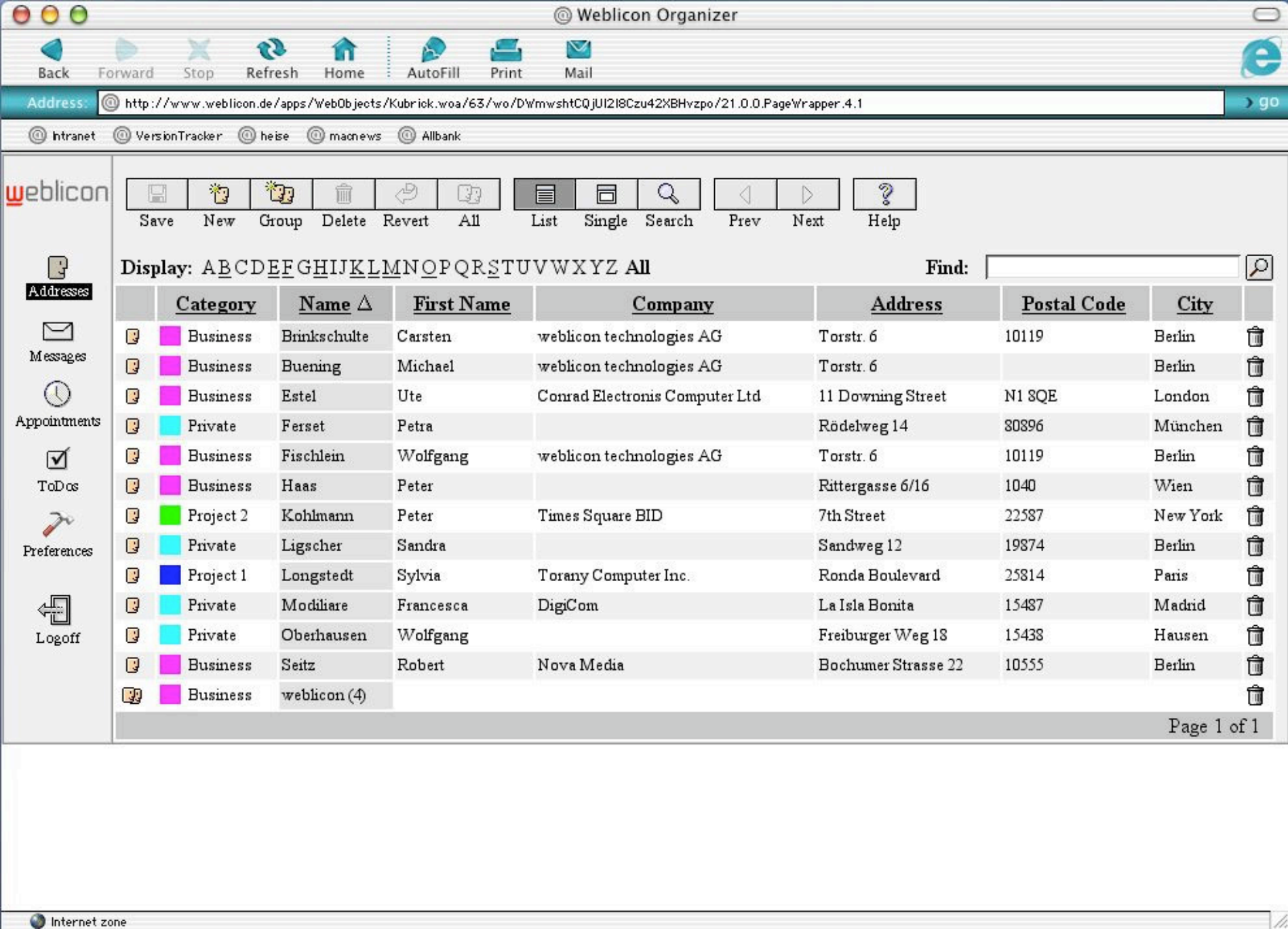
Michael Buning
CTO, Weblicon Technologies AG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Intranet
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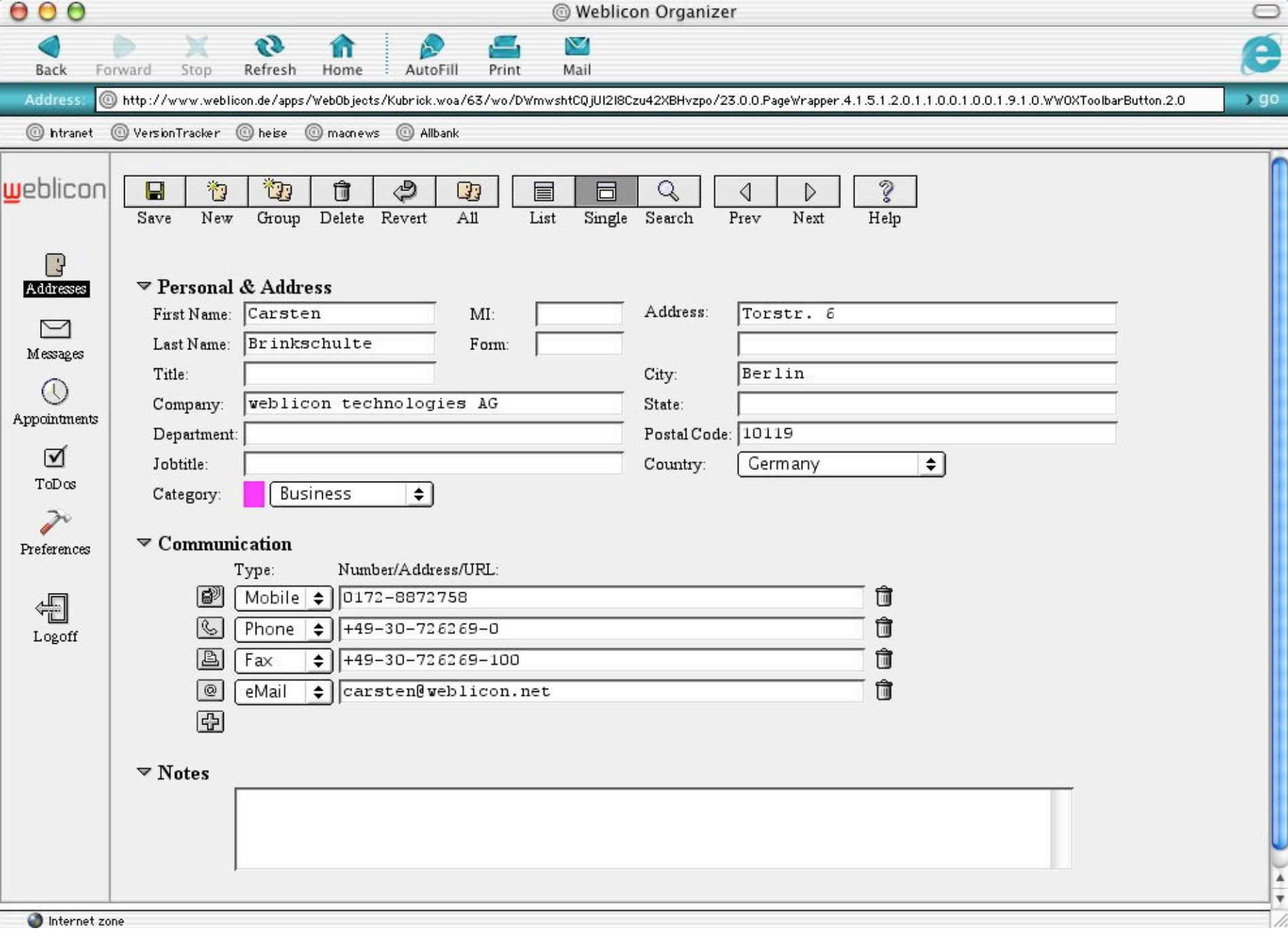
Appointments
ToDos
Preferences
Logoff
Display: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z All
Find:
Category
Name △
First Name
Company
Address
Postal Code
City
Business Brinkschulte Carsten weblicon technologies AG Torstr. 6 10119 Berlin
Business Buening Michael weblicon technologies AG Torstr. 6 Berlin
Business Estel Ute Conrad Electronis Computer Ltd 11 Downing Street N1 8QE London
Private Ferset Petra Rödelweg 14 80896 München
Business Fischlein Wolfgang weblicon technologies AG Torstr. 6 10119 Berlin
Business Haas Peter Rittergasse 6/16 1040 Wien
Project 2 Kohlmann Peter Times Square BID 7th Street 22587 New York
Private Ligscher Sandra Sandweg 12 19874 Berlin
Project 1 Longstedt Sylvia Torany Computer Inc. Ronda Boulevard 25814 Paris
Private Modiliare Francesca DigiCom La Isla Bonita 15487 Madrid
Private Oberhausen Wolfgang Freiburger Weg 18 15438 Hausen
Business Seitz Robert Nova Media Bochumer Strasse 22 10555 Berlin
Business weblicon (4)
Page 1 of 1
Internet zone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go
Intranet
VersionTracker
heise
macnews
Allbank
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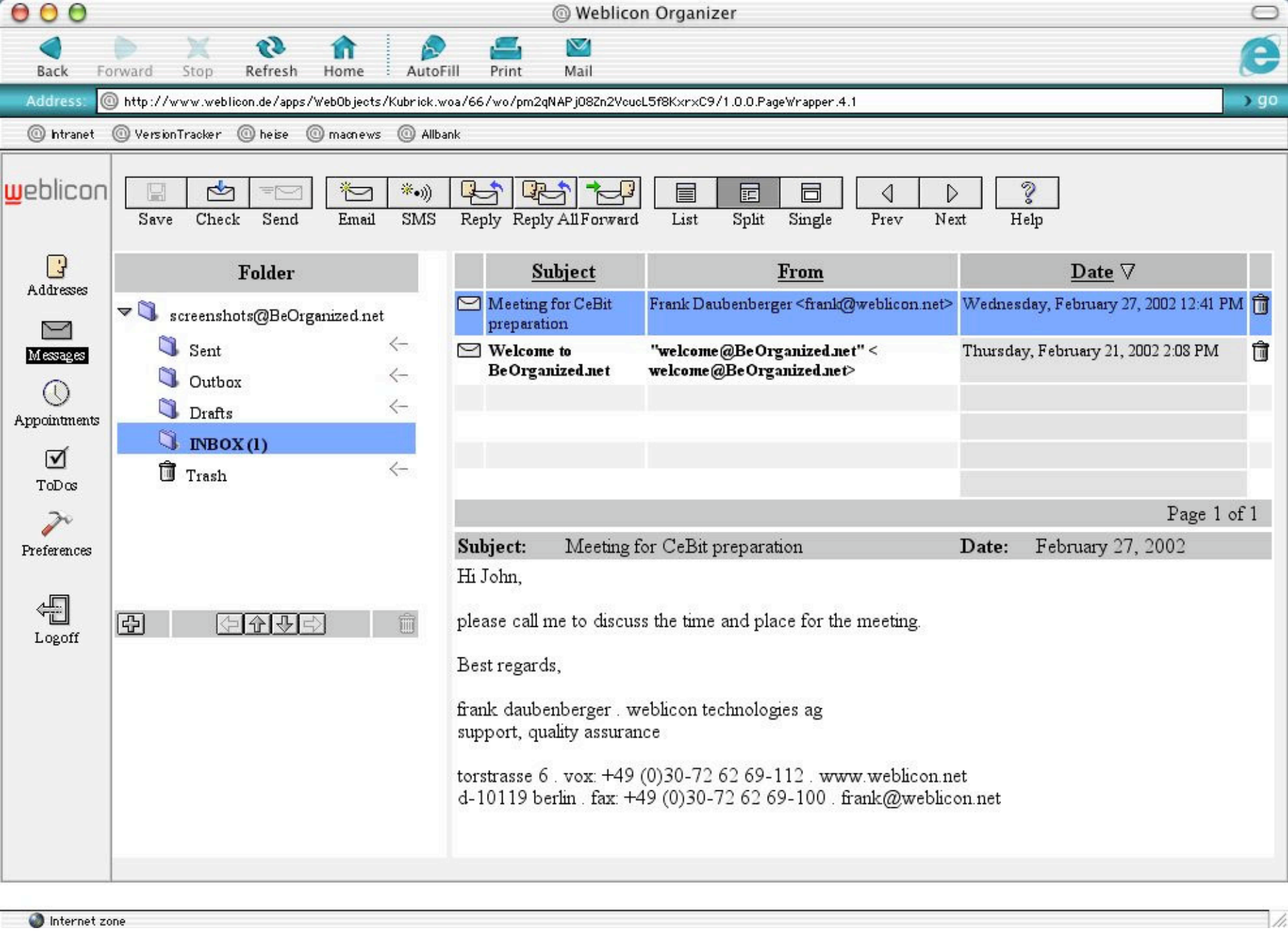
Help
Addresses
Messages
Appointments
ToDos
Preferences
Logoff
Personal & Address
First Name:
Carsten
MI:
Address:
Torstr. 6
Last Name:
Brinkschulte
Form:
Title:
City:
Berlin
Company:
weblicon technologies AG
State:
Department:
Postal Code:
10119
Jobtitle:
Country:
Germany
Category:
Business
Communication
Type:
Number/Address/URL:
Mobile
0172-8872758
Phone
+49-30-726269-0
Fax
+49-30-726269-100
eMail
carsten@weblicon.net
Notes
Internet zone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Allbank
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Check
Send
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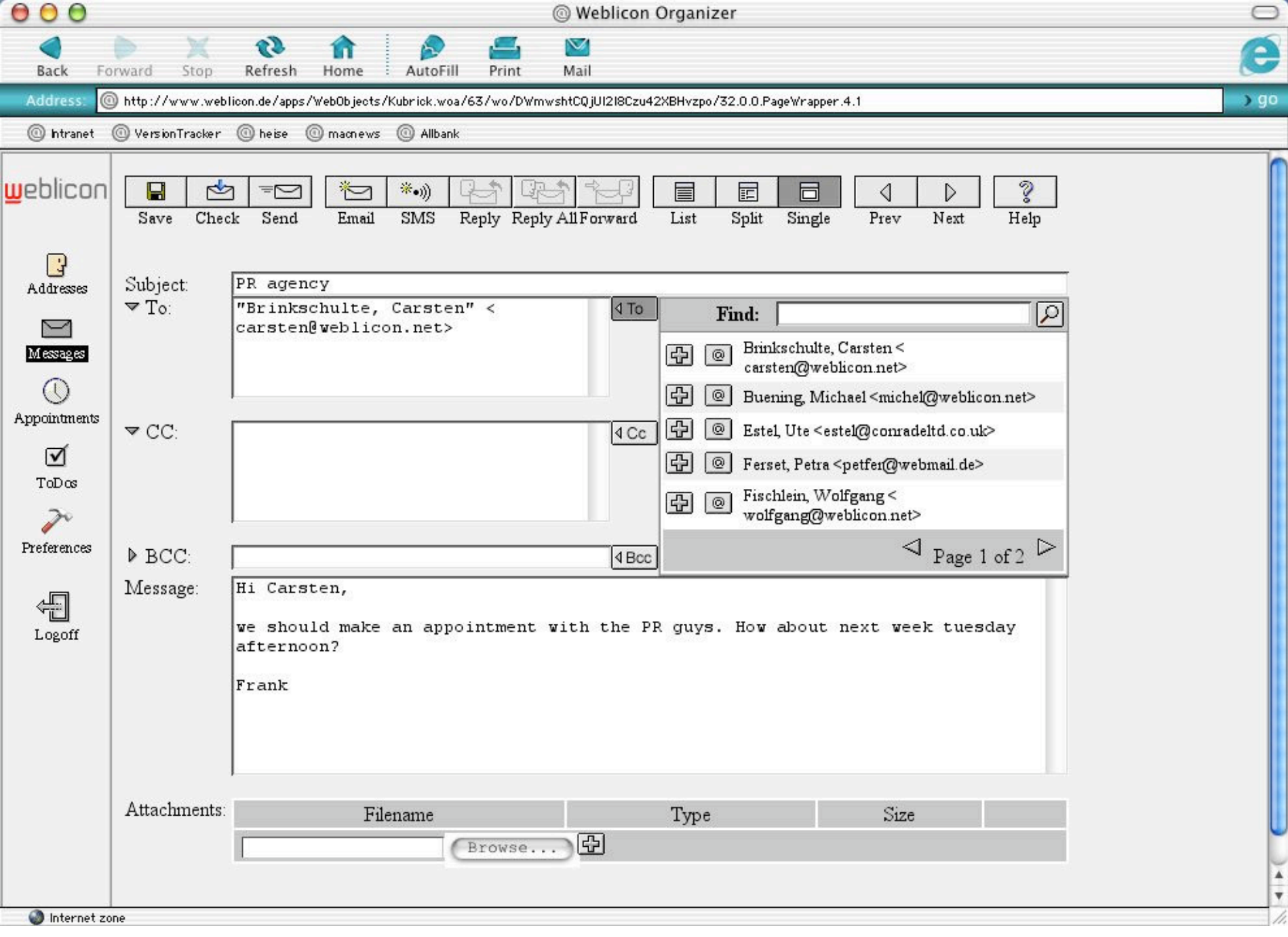
Next
Help
Addresses
Messages
Appointments
ToDos
Preferences
Logoff
Folder
screenshots@BeOrganized.net
Sent
Outbox
Drafts
INBOX (1)
Trash
Subject
From
Date ▽
Meeting for CeBit preparation
Frank Daubenberger <frank@weblicon.net>
Wednesday, February 27, 2002 12:41 PM
Welcome to BeOrganized.net
"welcome@BeOrganized.net" < welcome@BeOrganized.net>
Thursday, February 21, 2002 2:08 PM
Page 1 of 1
Subject: Meeting for CeBit preparation
Date: February 27, 2002
Hi John,
please call me to discuss the time and place for the meeting.
Best regards,
frank daubenberger . weblicon technologies ag
support, quality assurance
torstrasse 6 . vox: +49 (0)30-72 62 69-112 . www.weblicon.net
d-10119 berlin . fax: +49 (0)30-72 62 69-100 . frank@weblicon.net
Internet zone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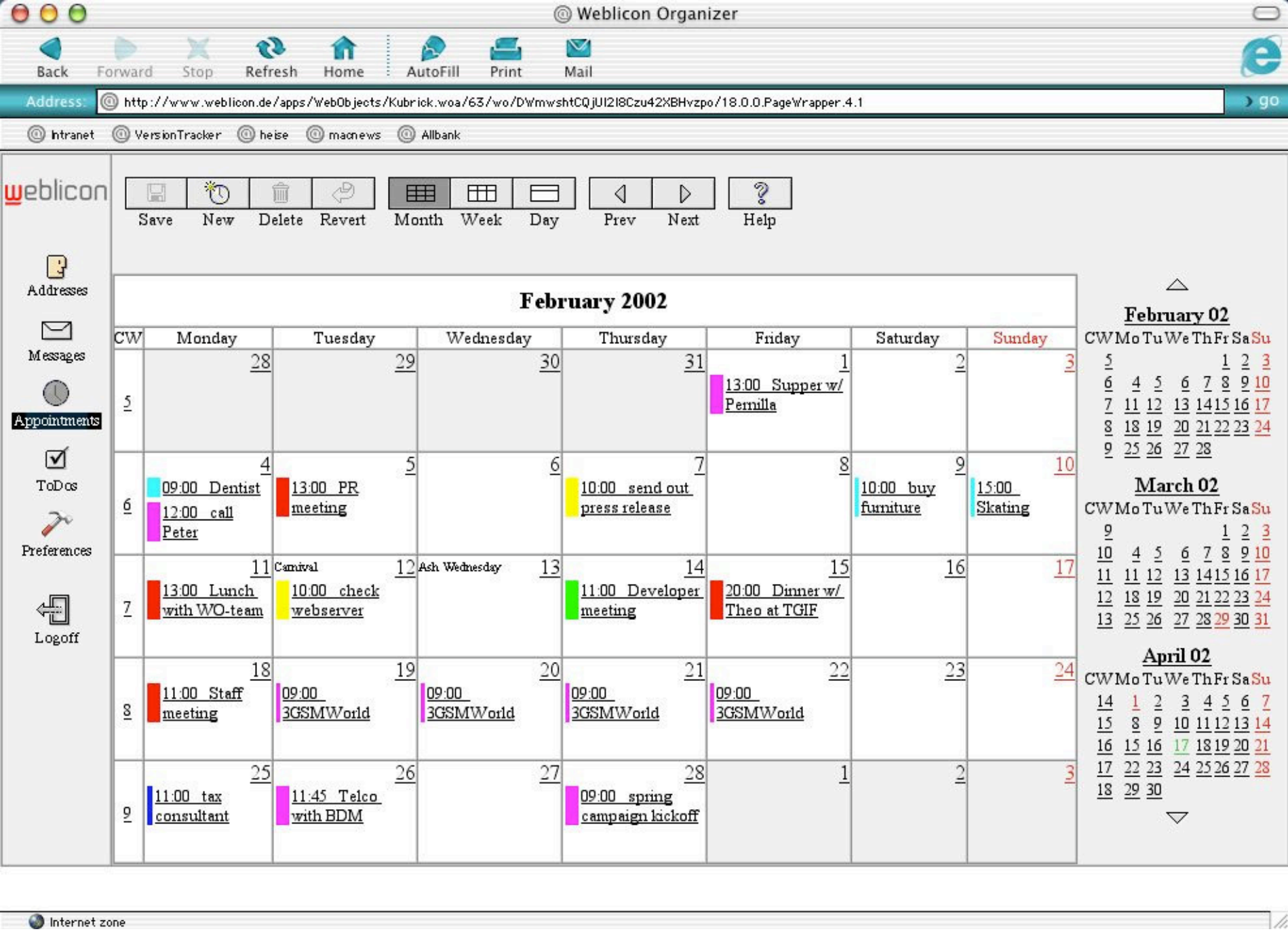
Single
Prev
Next
Help
Addresses
Messages
Appointments
ToDos
Preferences
Logoff
Subject:
PR agency
To:
"Brinkschulte, Carsten" <carsten@weblicon.net>
To
Find:
Brinkschulte, Carsten <carsten@weblicon.net>
Buening, Michael <michel@weblicon.net>
Estel, Ute <estel@conradeltd.co.uk>
Ferset, Petra <petfer@webmail.de>
Fischlein, Wolfgang <wolfgang@weblicon.net>
Page 1 of 2
CC:
Cc
BCC:
Bcc
Message:
Hi Carsten,
we should make an appointment with the PR guys. How about next week tuesday afternoon?
Frank
Attachments:
Filename
Type
Size
Browse...
Internet zone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ToDos
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Logoff
February 2002
CW
Monday
Tuesday
Wednesday
Thursday
Friday
Saturday
Sunday
5
28
29
30
31
1
13:00 Supper w/ Pernilla
2
3
6
4
09:00 Dentist
12:00 call Peter
5
13:00 PR meeting
6
7
10:00 send out press release
8
9
10:00 buy furniture
10
15:00 Skating
7
11
13:00 Lunch with WO-team
Carnival
12
10:00 check webserver
Ash Wednesday
13
14
11:00 Developer meeting
15
20:00 Dinner w/ Theo at TGIF
16
17
8
18
11:00 Staff meeting
19
09:00 3GSMWorld
20
09:00 3GSMWorld
21
09:00 3GSMWorld
22
09:00 3GSMWorld
23
24
9
25
11:00 tax consultant
26
11:45 Telco with BDM
27
28
09:00 spring campaign kickoff
1
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February 02
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6 4 5 6 7 8 9 10
7 11 12 13 14 15 16 17
8 18 19 20 21 22 23 24
9 25 26 27 28
March 02
CW Mo Tu We Th Fr Sa Su
9 1 2 3
10 4 5 6 7 8 9 10
11 11 12 13 14 15 16 17
12 18 19 20 21 22 23 24
13 25 26 27 28 29 30 31
April 02
CW Mo Tu We Th Fr Sa Su
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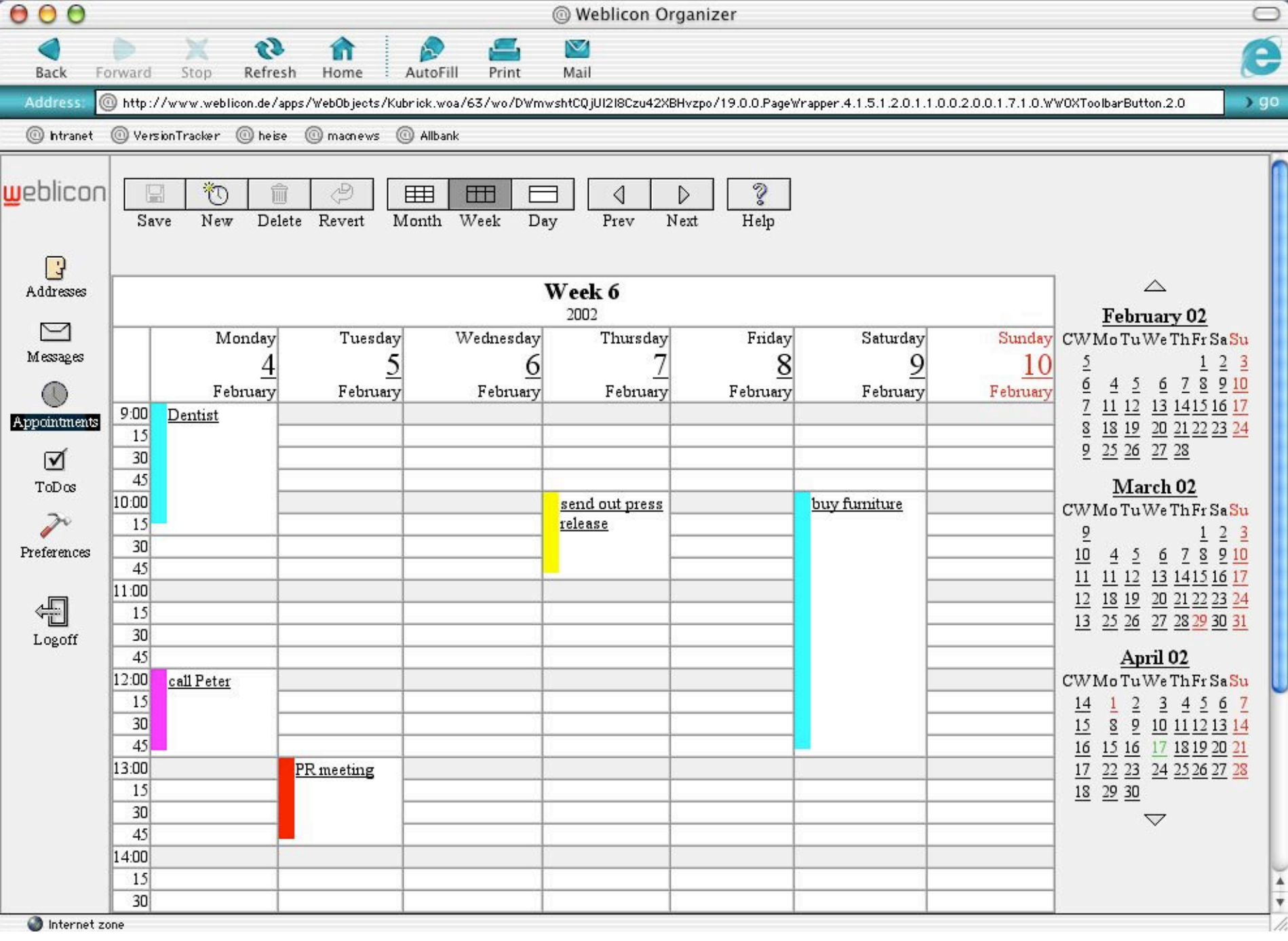
Internet zone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Wednesday 6 February
Thursday 7 February
Friday 8 February
Saturday 9 February
Sunday 10 February
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14:00
15
30
Dentist
send out press release
buy furniture
call Peter
PR meeting
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March 02
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April 02
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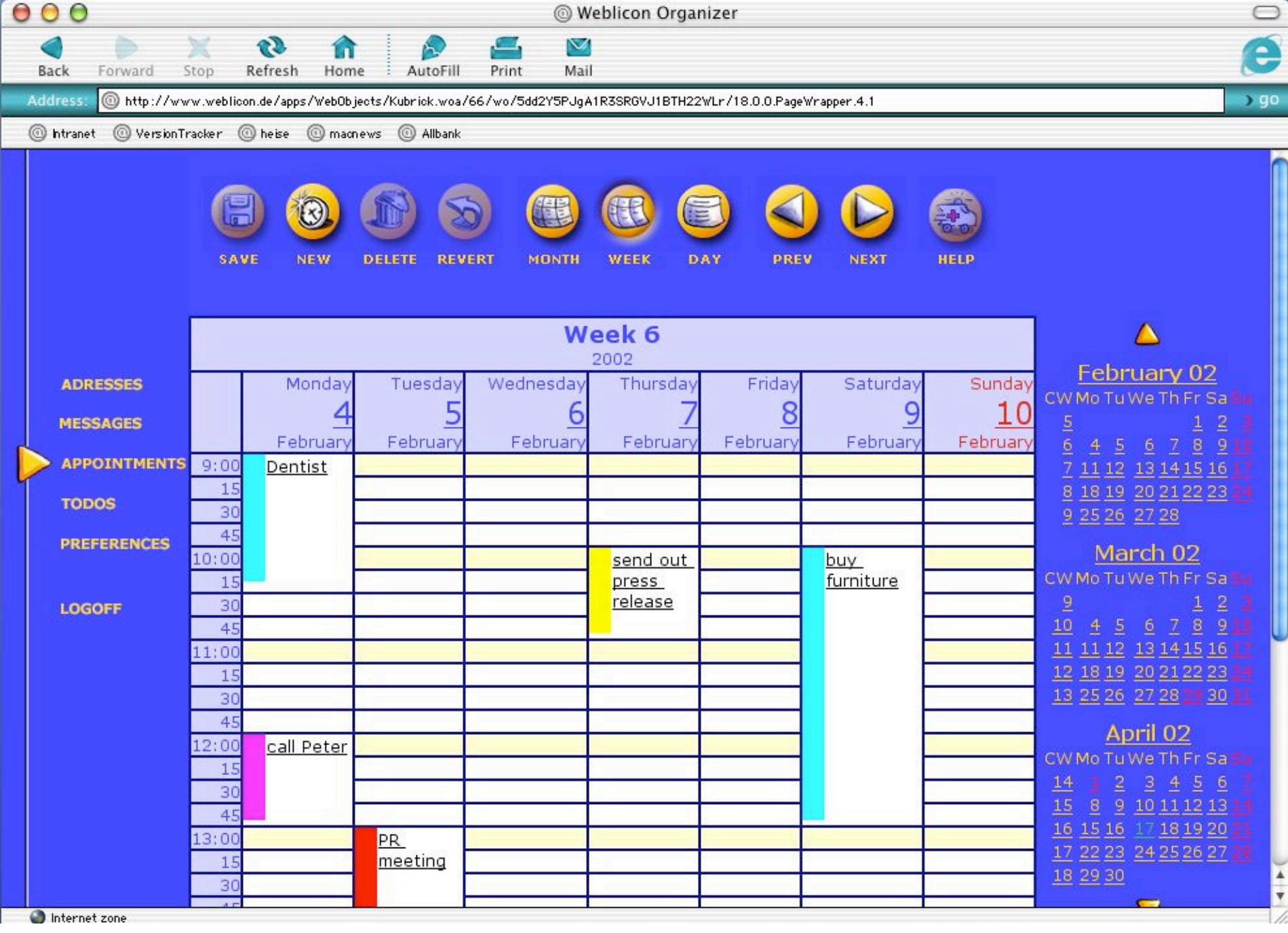
Weblicon Organizer
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NEXT
HELP
ADRESSES
MESSAGES
APPOINTMENTS
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PREFERENCES
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Wednesday 6 February
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Dentist
send out press release
buy furniture
call Peter
PR meeting
February 02
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March 02
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April 02
CW Mo Tu We Th Fr Sa Su
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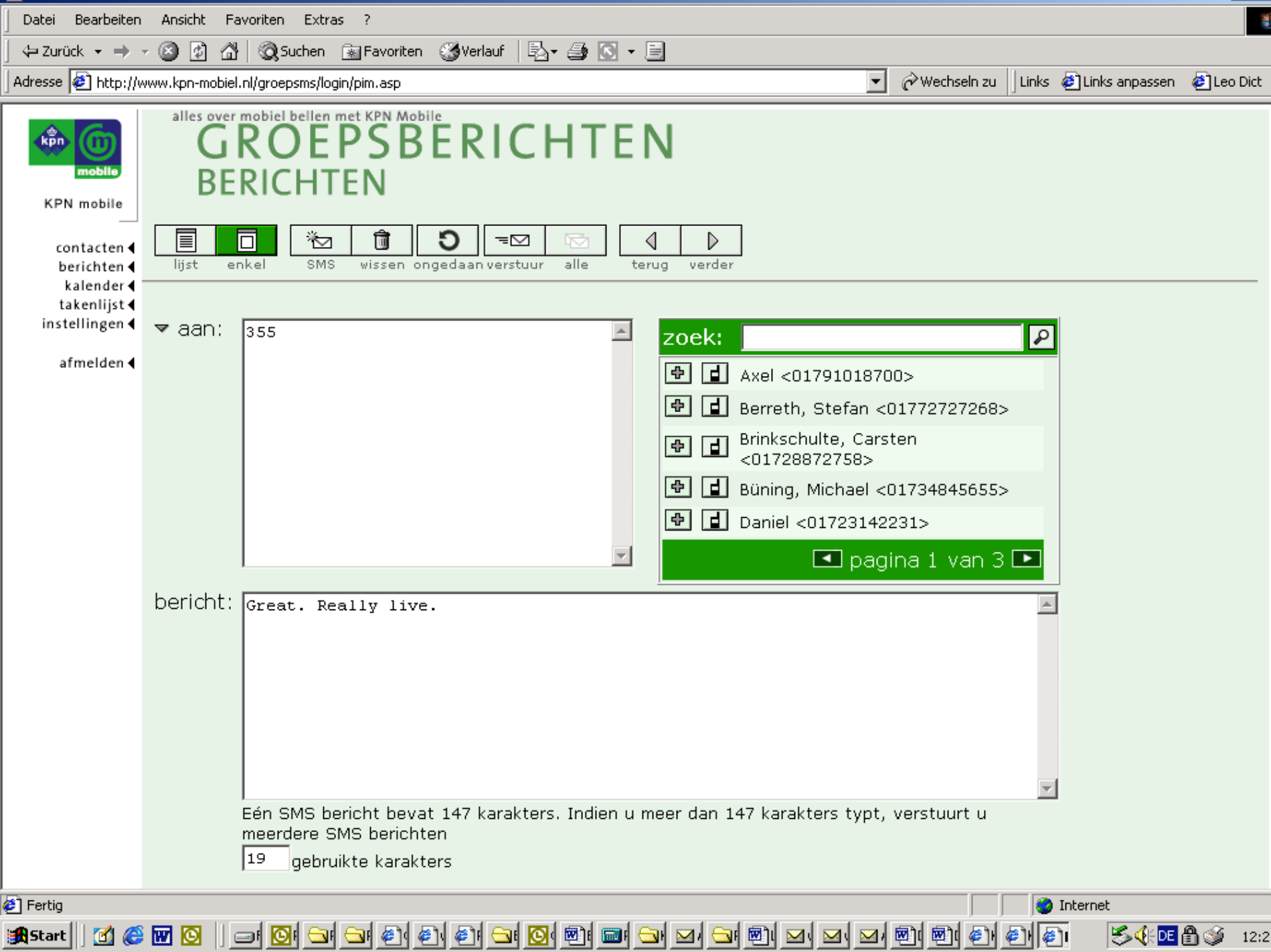
Internet zone


Datei Bearbeiten Ansicht Favoriten Extras ?
Zurück Suchen Favoriten Verlauf
Adresse http://www.kpn-mobiel.nl/groepsms/login/pim.asp
Wechseln zu Links Links anpassen Leo Dict
KPN mobile
alles over mobiel bellen met KPN Mobile
GROEPSBERICHTEN
BERICHTEN
lijst enkel SMS wissen ongedaan verstuur alle terug verder
contacten
berichten
kalender
takenlijst
instellingen
afmelden
aan:
355
zoek:
Axel <01791018700>
Berreth, Stefan <01772727268>
Brinkschulte, Carsten <01728872758>
Büning, Michael <01734845655>
Daniel <01723142231>
pagina 1 van 3
bericht:
Great. Really live.
Eén SMS bericht bevat 147 karakters. Indien u meer dan 147 karakters typt, verstuurt u meerdere SMS berichten
19 gebruikte karakters
Fertig
Internet
Start
12:2

Main
Contacts
Messages
Appointments
ToDos
Logout
R380 WORLD
ERICSSON
... > Day View
04.02.2002 Mo
09:00 Dentist
12:00 call Peter
Next day
Previous day
Week View
Go to date
R380 WORLD
ERICSSON